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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. All quotations are governed by the West Virginia Code and the Legislative Rules of the Purchasing Division.
- 4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
- 5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
- 6. Payment may only be made after the delivery and acceptance of goods or services.
- 7. Interest may be paid for late payment in accordance with the West Virginia Code.
- 8. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
- 12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 13. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
- 14. HIPAA Business Associate Addendum The West Viginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division.
- 2. SPECIFICATIONS: Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Complete all sections of the quotation form.
- 4. Unit prices shall prevail in cases of discrepancy.
- 5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 6. BID SUBMISSION: All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130



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Department of Administration
Purchasing Division
2019 Washington Street East
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DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
ROUTE 33
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BUCKHANNON, WV
26201 304-4

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JOHN JOHNSTON

304-558-2402 DIVISION OF HIGHWAYS

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EQUIPMENT DIVISION ROUTE 33 **BRUSHY FORK ROAD** BUCKHANNON, WV 26201 304-472-1750

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JOHN JOHNSTON 304-558-2402

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Request for REQ NUMBER 70.7EC017

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS NO. 371-2-F

37,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM

1.0 PURPOSE

It is the purpose of these specifications to describe a 37,000 GVW Cab and Chassis, Stainless Steel Dump Body, and Piston Pump Hydraulic System (hereinafter referred to as a "dump truck" or a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

2.0 BIDDING PROCEDURES

The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply. Failure to submit the "Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail. Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, MAY RESULT IN AUTOMATIC DISQUALIFICATION.

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to Specifications". The state reserves the right to determine whether the stated exception does or does not reduce the quality and performance of the unit. Failure to provide

information for any exceptions may be grounds for rejection of the bid. The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

3.2 MANDATORY SPECIFICATIONS

All specifications preceded by "shall and/or must" or are stated as a "minimum and/or maximum" are mandatory. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section may also be grounds for immediate disqualification at the discretion of the State.

A mandatory pre-bid conference is scheduled for this equipment purchase as stated in the RFQ. Vendors having products with variations or exceptions in specified mandatory items are expected to address any such variations or exceptions during the pre-bid conference. The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.

4.0 REPRESENTATIVE UNIT FOR TEST

The successful vendor must (if specified) provide DOH one (1) completed representative unit to be observed and evaluated on each order only to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) working days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid shall be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendors expense.

4.1 CONDITION OF UNIT(S) UPON DELIVERY

All units must arrive at the prescribed delivery point having been completely preserviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.

4.2 DELIVERY

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 180 days. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. Delivery terms shall be stated in the bid and the State reserves the right to accept or negotiate such terms. Failure to reach an agreement may result in rejection of the bid. The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.

A completed pilot model for inspection should be provided within 90 calendar days after the date of the purchase agreement by the successful vendor.

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D.O.T. Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

5.0 AWARD CRITERIA

5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. The award shall be made to the lowest unit cost vendor that meets or exceeds the specifications.

Prices for the units shall be in quantities of 1-25, 26-50, and 51 and over. However, for evaluation purposes, we will use quantities 1-25. DOH reserves the right to place multiple orders in any quantity.

6.0 SPECIFICATIONS AND GUIDELINES - GENERAL

6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

The bidder must identify the unit by manufacturer, model, series, and year of manufacture, in the bid to enable identification by DOH in the manufacturer's specifications of the proposed unit. The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model, including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered to be manufactured after January 1, 2006 and be clearly identified and marked with date of manufacture.

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS

An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) <u>must be with pilot unit upon delivery</u>. Also, there must be 12 service, shop, or maintenance manual and 14 parts manuals. CD ROM is preferred in lieu of parts manuals.

* NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.

6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. In order to keep the operators and mechanics updated, the successful vendor shall conduct training with each purchase order against this open end contract. Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual.

The seminar to be held at the W. Va. Division of Highways, Equipment Division, Buckhannon, West Virginia.

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Procedures to be used by the operators of this equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc.

The successful vendor shall furnish all training aids; i.e., videos, projectors, etc. required in conducting the training.

6.5 WARRANTY AND SERVICE POLICY

Failure by a manufacturer's authorized dealer to render warranty service when properly presented may subject manufacturer's line for suspension from the approved products list until satisfactory evidence of correction is presented. The warranty table shown below shall be the minimum warranty provided.

Total Vehicle:	2 yr/unlimited miles	100% Parts and Labor
Engine:	4 yrs/100,000 miles	100% Parts and Labor
Drive Train:	2 yrs/unlimited miles	100% Parts and Labor
Cab:	3 yrs/unlimited miles	100% Parts and Labor

Structural and Corrosion

*NOTE: From date of delivery and acceptance of completed units, vehicles to be furnished shall conform to all applicable Federal and Motor Vehicle Safety Standards and all equipment shall conform to the Code of West Virginia and shall <u>include a valid and current state inspection sticker</u>. New vehicle service preparation must be performed by dealer prior to delivery.

The applicable warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory-authorized agencies. It will be the responsibility of the bidder to have available labor to replace, repair/replace any defective replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The unit must be accompanied upon delivery by the units' manufacturers executed warranty or service policy.

THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).

6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

^{*}Please list all extended service contract coverages published and not published along with cost as options. (Also, provide manufacturers hours vs. miles conversions.)

6.7 UNSPECIFIED ACCESSORIES & FEATURES

All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.

All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified, and except those which, by specification, are not to be furnished. All standard safety features, required by Federal and State Law, shall be included.

- 7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:
- 8.0 SPECIFICATIONS CAB & CHASSIS
- 8.1 GVW plate rating: 37,000 Lbs.
- 8.2 Cab to axle dimension: Approximately 84 Ins.
- 8.2.1 Cab to end of frame to be minimum 120 inches (required for pintle hitch installation)
- Wheelbase: Approximately 160 inches, set forward design for snowplow applications for our various plows. (Power Reversible approximately 2,000 lbs.)
- Frame: The manufacturer shall provide a frame that meets or exceeds all Federal requirements for G.V.W.R. specified that has an integral front frame extension with no frame cutouts except to allow engine installation. Extension shall extend forward of the grille area a minimum of 12 inches. A minimum 5 year warranty on frame and shall conform to the following:
- 8.4.1 Frame Steel: 120,000 P.S.I. yield strength minimum
- 8.4.2 R.B.M.: 2,040,000 Ins./Lb. Minimum
- 8.4.3 To assure space for installation of spinner chute, the truck chassis frame rails must be free of obstructions inside the frame rails and along the left outside frame rail approximately 23 inches to 38 inches from back of cab.
- 8.4.4 Omit factory installed bumper.
 In body section under the following paragraphs, you will find information concerning the build of a front bumper for these units. (Item 9.24, 9.24.1 through 9.24.8)

- Cab: The cab to be the manufacturer's standard steel and/or fiberglass, and/or aluminum 8.5 with premium or manufacturers highest level interior trim with inside noise level rating not to exceed 80dba in compliance with Federal regulations. Shall include ambient temperature display for outside temperature. Hood to be tilt hood and fenders either steel and/or fiberglass and shall be provided with rear air bag suspension. Also, inner fender panels that are adequate to keep materials from engine compartment. Unit to be equipped with manufacturers tilt steering column with cruise control 8.5.1 feature or provide locking hand operated throttle. 8.5.2 Seats- Driver: Fully adjustable high back with head rest, air ride, bucket style; seat to include air lumbar, hip bolsters, side bolsters, and back bolsters, with full cloth on entire seat and material must be Modura or approved equivalent. Passenger seat to be fully adjustable high back with head rest, air ride, bucket 8.5.2.1 style, cloth covered or minimum of cloth insert in vinyl. Clearance between drivers and passenger seats shall be a minimum of 12 inches. Floor Mats: Rubber floor mats throughout cab area with non-absorbent backing 8.5.3 under the mats. 8.5.4 Heater and Defroster: Fresh Air Type, Heaviest Duty Windshield Wipers and Washers: Manufacturer's heaviest duty artic type with 8.5.5 intermittent feature. Wipers shall be equipped with snow type blades. Instruments: Manufacturer's gauges with visual and/or audible and/or programmable 8.5.6 warning to inform driver when operating conditions are exceeded shall include: 8.5.6.1 Voltmeter or Ammeter 8.5.6.2 **Engine RPM Tachometer**
- 8.5.6.2 Engine RPM Tachometer
 8.5.6.3 Speedometer with Odometer
 NOTE: Provisions for dual speedometer leads shall be made available
 8.5.6.4 Air pressure gauge(s)
 8.5.6.5 Air filter to be manufacturers heaviest duty dual element type.
 8.5.6.6 Air Filter Restriction Indicator shall be dash mounted
 8.5.6.7 Engine Hourmeter (Controlled by engine operation, not by key switch).

8.5.6.8	Fuel Gauge(s) with low fuel warning indicator
8.5.6.9	If unit is equipped with front air intake, an air actuated or cable control valve shall be provided to enable operator to divert air intake to engine compartment while in snow plowing application.
8.5.6.10	Oil pressure gauge
8.5.6.11	Temperature gauge
8.5.6.12	Low coolant indicator
8.5.7 8.5.7.1	Accessories: Manufacturers dash mounted extended two (2) cup drink holder
8.5.7.2	Air horns with snow shields; if cab mounted, with adequate clearance for future installation of dump body cab protector. Single horn may be used without snow shield if mounted downward on frame rail under hood.
8.5.7.3	Rearview Mirrors: To be heated dual, West Coast Type, approximately 7" x 16", power adjustable with convex spot mirror to include fore and aft breakaway feature with corrosive resistant finish equal to stainless steel, powder coat, or aluminum housing and mounting brackets.
8.5.7.4	Grab Handle: Right Hand and Left Hand Sides internal or external mounting to rear of door opening. If inside handles are featured, one (1) outside, left, mounted grab handle with non-slip insert for bed aggregate inspection must be furnished.
8.5.7.5	Glass: To be manufacturers tinted safety glass; front, sides, and rear.
8.5.7.5.1	Dual power windows
8.5.7.6	Radio: Manufacturers standard AM/FM stereo. Weather band radio feature.
8.5.7.7	Air Conditioning: Manufacturer's fresh air type heaviest duty with APADS or equivalent RCD (refrigerant control and diagnostics) system to include replaceable fresh air filter.
8.5.7.8	Manufacturer shall provide for stationary grille or grille with cutout area to allow tilt hood to clear snow plow mount. Bug screen will be provided behind grille.
8.5.7.9 8.5.7.10	Front mudflaps to be manufacturers standard for unit bid. Emergency triangle warning kit, with hold down (KD610-464S, KD Lamp Co. or equal) stoyed (fastened) in the cab. (Check with DOH before mounting)

- 8.5.7.11 Unit to include kit for front mounted CB radio and all power and ground wiring to include co-ax cable, antenna, speaker, etc. All cable and wiring shall be routed using grommets and wire looms. (Radio to be provided by successful vendor.)
- 8.5.7.12 Unit shall have two (2) front frame mounted tow hooks or eyes.
- 8.5.7.13 Accessories not indicated above but are included in the manufacturer's standard cab shall be provided.

8.6 Engine:

NOTE: ACCEPTABLE ENGINES

Cummins ISL-8.9 Liter

Model ISL-310 310 HP 1050 ft. lb. torque @ 1300 RPM

Cummins ISC - 8.3 Liter

Model ISC-260 260 HP 800 ft. lb. torque @ 1300 RPM Model ISC-285 280 HP 800 ft. lb. torque @ 1300 RPM

Volvo - 7.3 Liter

Model VE-275 275 HP @ 2200 RPM 800 ft. lb. torque @ 1300 RPM Model VE-300 300 HP @ 2200 RPM 950 ft. lb. torque @ 1300 RPM

International - 7.8 Liter

MaxxForce DT 260 HP 800 ft. lb. torque MaxxForce 9 285 HP 800 ft. lb. torque

Mack

Model AMI-300 300 HP @ 2100 RPM 1200 ft. lb. torque @1300 RPM

Duramax Diesel 7800 – 7.8 liter

250 HP @ 2200 RPM 800 ft. lb torque @ 1450 RPM

Mercedes Benz - 7.2 liter

Model MBE-900 280 HP @ 2200 RPM 800 ft. lb. torque @ 1300 RPM

Caterpillar

C-7 w/ACERT 250 HP @ 2200 RPM 800 ft. lb. torque @ 1440 RPM

*NOTE: ANY VARIATION IN MANUFACTURER AND MODEL MUST BE APPROVED PRIOR TO SCHEDULED BID OPENING DATE.

8.6.1	Engine manufacturer to make provisions for front mounted hydraulic pump to crankshaft pulley.
8.6.2	Diesel Engine - Shall be 250 HP minimum @ approximately 2200 R.P.M.
8.6.2.1	Peak torque 800 lb ft. minimum
8.6.2.2	Fuel heater/water separator mounted inside engine compartment; Davco, Alliance, Racor or approved equivalent.
8.6.2.3	Engine block heater with minimum 1000 watt/115v rating to include weather proof spring loaded cap over plug
8.6.2.4	A single vertical exhaust pipe with horizontal muffler that will meet all Federal noise abatement requirements. Exhaust to be frame mounted on the passenger side of unit with heat shield on vertical exhaust.
8.6.2.5	Engine shall be equipped with engine brake: compression, compression/exhaust, or exhaust.
8.6.2.6	Engine oil pan to be zinc nickel plated, aluminum or non-corrosive coated
8.6.2.7	Engine to provide electronic speed control including throttle and cruise control features.
8.7 8.7.1	Cooling System: The cooling system shall be capable of maintaining engine temperature within the manufacturer's recommended range during continuous winter/summer operation. Ar automatic "on-off" fan drive with nylon fan blades; Horton Drivemaster or approved equivalent will be provided.
8.7.2	The system shall be filled with permanent type extended life coolant Dex-Cool or equivalent rated to a -34°F minimum.
8.7.3	The radiator shall provide adequate clearance to facilitate the installation of a crankshaft driven PTO drive shaft. The distance between the extreme tip of the radiator fan blade and the centerline of the crankshaft is a minimum of three inches (3") to insure adequate clearance for PTO drive shaft. Radiator and heater hoses to be of silicone type or approved equivalent with constant torque clamps or equivalent utilized on radiator hoses to minimize cold water leaks.
8.7.4	Radiator and heater hoses shall be Gates Blue Stripe or equal

3.8 3.8.1	Fue	l Tank: Capacity: 70 U.S. gallons minimum. Tank shall comply with FMVSS Filler cap is to be chain tethered.
3.9 3.9.1	Elec	ctrical System: Type: Twelve (12) volt negative ground system to include manual reset circuit breakers (main panel) SAE Type III with trip indicators to replace all fuses except for 5 amp fuses.
3.9.2 3.9.2.1		Batteries: (approximate ratings) Cold Crank AMPS: 1950 AMPS minimum with sealed terminals
3.9.2.2		Jump start studs mounted on outside of battery box.
3.9.3		Alternator Capacity: 110 AMPS minimum brushless with internal regulator.
3.9.4		Lighting: All lighting (number, location, and color) shall conform to the West Virginia Motor Vehicle Code. Unit shall feature daytime running lights. Cab marker lights shall be LED type with halogen headlamps.
8.9.5		Auxiliary snow plow lighting package shall be included.
8.9.5.1		Truck vendor may eliminate rear taillights but must provide minimum of eight (8) foot of wiring bundled at end of frame for body vendor hookup of taillights provided in dump bed body.
8.9.6		Manufacturer or successful vendor should make provisions for manufacture approved wiring and weatherproof disconnect plug (Weather Pac in line six (6) pin connector - Part Number 12010975) with approximately three (3) foot "pigtail" to operate front combination left and right turn/park lights/auxiliary headlights
8.9.6.1		Weatherproof disconnect plug to be located at lower left front grille/bumper area. All wiring connections to be weatherproof with wiring encased in wire looms. Exact location should be discussed with WVDOH representative before pilot review.
8.9.6.2	,	Provisions for 7-way trailer connection light socket to be mounted at rear of truck frame. Plug to be Cole Hersee Part No. 12063 or approved equal
8.9.6.3		Manufacturer shall provide body builder circuit interface capability with connection plug to be located at rear of frame for body builder connection to stop, tail, and marker light circuits, ignition controlled auxiliary feed to ground to provide splice free chassis wiring integrity.

8.9.6.4 Manufacturer shall provide body builder circuits – three (3) switches shall be located in the dash instrument panel with one (1) weather protected body builder connection box or module located at the rear under cab. This power module is to be 20 amps per channel, 80 amp maximum output. The dash switches are to control the power module with LED backlighting.

8.10 Transmission/Clutch:

- 8.10.1 Manual: Fuller RT8908LL. Transmission torque capacity shall exceed provided engine torque.
- 8.10.2 Clutch: Eaton Fuller, two plate, ceramic 14 inch diameter, mechanical pull type control and with kwik-adjust manual feature or equal. (Solo not acceptable)
- 8.11 Driveline shall be: Spicer 1710 or equal featuring greasable main shaft.
- 8.12 Rear Axle:
- 8.12.1 Rated Capacity: 23,000 Lbs. Single reduction shall include driver controlled main locking differential.
- 8.12.2 Rear Spring Capacity: Approximately 23,000 lbs. including 4,500 lb. capacity load stabilizer springs and shall provide sufficient clearance between spring, brake chambers, and tires to operate with single tire chains.
- 8.12.3 Ratio: Gear ratio to be determined by bidder; however, these vehicles to be capable of a top speed of approximately 70 MPH.
- 8.12.4 Rear axle differential, transmission, and front wheel lubrication reservoirs shall be filled with synthetic type lubrication and provided with magnetic drain plugs where applicable
- 8.13 Front Axle:
- 8.13.1 Capacity: 14,000 lbs. minimum I-beam type
- 8.13.2 Front Spring Capacity: 14,300 lbs Minimum for use with front plow
- 8.13.3 Manufacturers heavy Duty Shock Absorbers
- 8.13.4 Front Wheel Oil Lubricated Wheel Seals to be provided. (Stemco or equal)
- 8.14 Brakes should be:
- 8.14.1 Type: Full Air, with manufacturers ABS with traction control in compliance with

the most current FMVSS requirements	

- 8.14.2 Compressor: Model TF550 Bendix Westinghouse or equal 12.9 CFM minimum.
- 8.14.3 Service Brake Size: (Approximate)
- 8.14.3.1 Front: 16.5" x 5"
- 8.14.3.2 Rear: 16.5" x 7"
- 8.14.4 Parking Brake: Spring set, air release actuating rear axle service brakes. Instrument panel control. 30/30 MGM or equivalent.
- 8.4.14.1 All brake chambers to be sealed brake chambers with epoxy exterior coat on front and rear chambers; MGM, Anchorlok Goldseal or approved equal.
- 8.14.5 Air dryer with heater Bendix Westinghouse AD-9 or equal.
- 8.14.6 Manufacturer's standard air tanks for service brakes; auxiliary tank for parking brake.
- 8.14.7 Low air pressure warning light and buzzer
- 8.14.8 Brakes shall meet or exceed all current Federal and State FMVSS requirements.
- 8.14.9 Brake dust covers to be installed on all wheels.
- 8.14.10 Unit shall be equipped with tractor protection valve and hand control valve to accommodate installation of glad hands at rear of frame rails to enable unit to pull an air-braked trailer.
- 8.14.10.1 Glad hands shall be recessed as not to stick out past end of frame rails
- 8.15 Tires and Wheels:
- Wheel, Front and Rear: Shall be 22.5 x 8.25, hub piloted steel disc type, to accommodate specified tire size. Accuride 28828 with 0.472 inches thickness or equal. All wheels to include wheel guard separators.
- 8.15.2 Tires:
- 8.15.2.1 Front: 12R22.5H;highway tread,radial,tubeless-Load Range H, 16 ply
- 8.15.2.2 Rear: 11R22.5G; on/off highway lug tread design, radial, tubeless. Goodyear G-328 14 ply or approved equal.
- 8.16 Manufacturer's standard power steering to be provided for front axle specified

Unit shall include all other features considered as standard equipment if not specifically 8.17 addressed above. Paint: (See enclosed diagram for color reference) 8.18 The unit should be painted as described: Cab exterior and interior: Federal Standard White 595 A (No. 17875) Paint process 8.18.1 shall be Base Coat-Clear Coat process of Imron 6000 or equal. Grille: Manufacturer's standard grille paint similar to silver or aluminum in color. 8.18.2 Grilles made from bright finish or bright plated material do not require painting. Fuel Tanks, Steps, Air Tanks, and Battery Box to be non-corrosive coated. 8.18.3 Wheel paint shall be top coat painted with TGIC polyester powder paint 8.18.3.1 MLD-82008 high gloss gray or equal applied over Cathodic Electro-Disposition Gray Primer or equal. Detail/Decorative Stripes with Logo: 8.18.4 Width: To be 2 inch with taper at front of hood. 8.18.4.1 WVDOH logo (to be supplied by WVDOH) is attached (black and white copy) 8.18.4.2 and is approximately 7" tall by 7" wide. Area behind logo and within ½" of logo is not to be striped. Stripes should be cut to follow contour of logo, in lieu of straight cut. Striping shall be installed by vendor. Striping material to meet the requirements of ASTM D4956-91 Type V sheeting. 8.18.4.3 a super high-intensity retroreflective sheeting consisting of microprismatic retroreflective elements. The conspicuity sheeting must meet the requirement of NHSTA, DOT, 49CFR, PART 571 Federal Motor Vehicle safety standards for conspicuity sheeting and be "DOT approved". The sheeting for both applications above should not exceed more than .0.008 inch 8.18.4.4 thick having approximately 47,000 microprisms per square inch and shall come with an aggressive high tack pressure sensitive adhesive, Reflexite or equivalent. Upper stripe color: Dark Blue 8.18.4.5 Lower stripe color: Light Gold 8.18.4.6 Bidder should attach his proposed paint plan with this bid. It should include chips 8.18.4.7 or samples of proposed paints as well as a proposed striping detail on a cab silhouette sheet. Bidder may modify attached striping plan to fit the particular

hood or cab shape.

- 8.18.4.8 Manufacturer's standard plant procedures for cleaning, degreasing, preparing, priming, and painting are sufficient to meet the requirements for painting of cab (white). Cab will not be painted white over top another finish color.
- 8.18.5 The Department reserves the right to view larger paint samples after award of contract and the right to require subtle color changes. Such changes, if any, will only be used for selecting a suitable paint color to match the WVDOH logo.
- 8.18.6 In order to test the adhesive quality of the paint, the DOH may, at its option, require that the vendor measure adhesion by the criteria set forth in ASTM D3359-74, Method B. A rating of less than 4 on this test would be deemed unacceptable.
- 8.19 Vendor must certify that the unit offered will meet or exceed the "Occupational Safety and Health Act of 1970" and subsequent amendments.
- 8.20 Advertising: No visible decals or nameplates or painted on names representing the manufacturer or model number or trademark should appear on the exterior of the unit. Logos created through the stamping or casting process of manufacture are acceptable.
- 8.21 Preventive Maintenance and Operator's Training School
- 8.21.1 Manufacturers and/or dealers shall be required to stage a thorough seminar on the subjects Preventive Maintenance and Operator Training. The seminar to be held at the Equipment Division, Buckhannon, WVa.
- 8.21.2 The successful vendor to furnish all training aids; i.e. videos, projectors, etc. required in conducting the training.
- 8.21.3 In addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Training procedures to be used by the operators of this equipment, include such things as daily pre-start, inspection procedure, service schedule and routine maintenance required, safety precautions, etc.

Bidder to attach a copy of the proposed program with his bid, state the time required to perform the program and briefly describe the proposed program.

9.0	SPECIFICATIONS – 304 STAINLESS STEEL COMBINATION DUMP/SPREADER BODY
9.1	Body capacity to be minimum 6 cubic yards water level
9.2	Sideboard pockets and tailgate height should provide additional capacities of one (1) cubic yard
9.3	Front body bulkhead to be 3/16 inch 304 stainless steel
9.4	Cab shield to have sufficient clearance to ensure shield will not hit exhaust when dumping on uneven terrain
9.5	Two (2) front truck frame mounted tow hooks or eyes accessible through the bumper (Reference 9.24.5)
9.6 9.6.1	Dimensions: Inside length of body not to exceed 126 inches
9.6.2	Inside width of the body -88 inches wide to maximize capacity and lower the center of gravity of the unit
9.6.3	Outside width of the body – 96 inches at the integral fenders
9.6.4	Body spacing from cab – 4 inch minimum
9.6.5	Basic minimum side height – 36 inches (measure from the floor to top rail)
9.6.6	Tailgate minimum height - 46 inches (measure from the floor to top rail)
9.6.7	Body overhang - 10 inches - 18 inches (measure from center of hinge pin)
9.6.8	Cab protector – 24 inches x 94 inches approximate with adequate clearance for cab mounted air horns
9.7	Cab protector to be sloped rearward for drainage purposes

9.8 Construction of the body sides, front, head, and tailgate shall conform to the following minimum specifications:

Steel types shall be 304 stainless steel

9.8.1	Floor: 1/4 inch thickness
9.8.2	Sides: 3/16 inch thickness
9.8.3	Tailgate plate: 3/16 inch thickness
9.8.4	Top rail: 3/16 inch thickness
9.8.5	Cab protector: 10 gauge
9.8.6	Longitudinal: Minimum 10 inch/7 gauge 304 stainless steel formed inner/10 gauge 304 stainless steel formed with internal stainless steel gussets every 30 inches
9.8.7	For future potential pre-wet application, the combination body shall be capable of accepting frame mounted approximately 85 gallon poly liquid tanks. The body shall be designed to allow maximum protection to the tanks.
9.9	All welding inside the body should be continuous, not skip welded. All rails and posts to be continuous welded.
9.10	The rear corner posts should be full length, one (1) piece construction.
9.10.1	A rear bolt on spreader apron must be provided unless integrated into the rear of the bed.
9.11	Cab protector sides, formed with gussets, should extend forward approximately 24 inches. Clearance above highest point of cab should be three (3) inches minimum
9.12	The body shall be a unibody design – no crossmembers
9.12.1	The body shall have one (1) piece sides and floor which shall incorporate a sloping floor to side radius to adequately feed material to the conveyor chain
9.12.2	The sides of the body to slope to the conveyor to facilitate self cleaning of body without raising.
9.13	The boxed top rail to be sloped inward to shed debris

9.14	Full length 304 stainless steel integral rear fenders continuously welded and positioned over wheels of the truck chassis
9.15	An integrated center conveyor shall provide the ability of the body to convey granular materials with the body down and have the following features:
9.15.1	The conveyor should have no more than 12 inch truck frame to body floor height for lower center of gravity and lower mounting height
9.15.1	1 Wood products are not acceptable
9.15.2	1/4 inch 304 stainless steel conveyor floor or abrasion resistant steel (AR400)
9.15.3	2 inch diameter front and rear shafts with eight (8) tooth sprockets
9.15.4	Drive sprockets are double keyed to shaft
9.15.5	Conveyor width - no less than 25 inches
9.15.6	Conveyor shall be reversible
9.15.7	Conveyor to be driven with 25:1 planetary gearbox drives or equivalent on both the front and rear shafts with approximately 5.0 CIR hydraulic motors. One (1) motor shall have an integral conveyor speed sensor
9.15.8	Conveyor chain to be D667K pintle type (24,500 lb. tensile/strand) with minimum 3/8 inch x 1 1/2 inch conveyor crossbars welded to every link
9.15.9	A 10 gauge 304 stainless steel bolt in pan under the conveyor to keep material off chassis frame is required
9.16	The body shall have the capability to convey to the front or the rear with a material spinner for distributing material:
9.16.1	For front spreading, a front feedgate integrated into the head sheet of the body to be no less than 8 inches x 24 inches.
9.16.2	A 304 stainless steel front spinner chute shall be mounted between chassis frame rails and with the body down be completely enclosed to prevent material from dropping on chassis drive shaft.
9.16.3	For rear spreading, there will be a 7 gauge 304 stainless steel 10-12 inch x 24-26 inch rear feedgate in the body tailgate.

9.16.4	Rear feed gate to be lever operated or screw adjustable. The feedgate to be capable of being positively locked into position.
9.16.5	The front spinner bracket and chute shall be mounted to the truck chassis frame and for rear spreading capability the rear spinner chute and brackets shall be installed by successful vendor.
9.16.6	The spinner assembly shall be universal and may be used at front or rear.
9.16.7	Spinner assembly must be adjustable left to right, and up and down to assure accurate placement of material on spinner disc to facilitate control of spread pattern.
9.16.8	10 gauge 20 inch diameter spinner disc to have replaceable machined hub.
9.16.9	Spinner shall be 409 or 304 stainless steel
9.16.10	If spinner hydraulic motor is mounted on top of spinner disc, the motor shall be enclosed in a removable material shedding protective cover.
9.17 Hydra	ulic Hoist:
9.17.1	Trunnion Mount or Top Lift Telescopic Hoist
9.17.2	Telescopic hoist shall be no less than N.T.E.A. Class 40
9.17.3	Single hoist cylinder to be trunnion mount or top lift
9.17.4	Hoist cylinder shall have three (3) stages with approximately 90 inches of stroke with a four (4) inch diameter first stage. Part number MALHOIT CS-90-4-3 or MALHOIT CS-88 or equal
9.17.5	The cylinder shall have wear and corrosion resistant nitrided cylinder tubes.
9.17.6	There shall be a minimum two (2) year cylinder warranty.
9.17.7	A five (5) degree oscillating cylinder collar shall protect the cylinder against side stress if trunnion mount cylinder is provided.
9.17.8	The body shall have 6 inch x 8 inch x 1/2 inch structural angle rear hinge assembly installed in the truck chassis frame (no hoist subframe).
9.17.9	The rear hinge assembly shall have cold roll steel hinge pins connecting to 2 1/2 inch hinge blocks with grease zerks.

9.18 The following features shall be included:		
9.18.1	Warning light (bed raised) control console mounted (Reference 10.6.1.1)	
9.18.2	Hydraulic oil level reading	
9.18.3	Safety decals as required	
9.18.4	304 stainless steel mud guards, 10 gauge x 24 inches x 30 inches permanently attached in front of rear wheels. NOTE: Rear mud flaps will be furnished by WVDOH. The body vendor to align exhaust stack for body clearance.	
9.18.5	304 stainless steel shovel bracket	
9.18.6	304 stainless steel gussets (board pockets) for 4 inch x 6 inch lumber (rough) located at front and rear and mid-rail. 4 inch x 6 inch (rough) oak sideboards supplied and bolted through the gussets. Painted aluminum to match the body.	
9.18.7	The unit shall have air operated tailgate with dual brake chamber air tailgate latches (one on each side). Pivot shafts included stainless steel bushings to eliminate seizing. Tailgate latch rods that extend the length of the body or have a cross shaft are not required.	
9.18.8	1 1/2 inch 304 stainless steel grip strut walk rail installed on both sides of the body.	
9.18.9	OSHA approved backup alarm, electronic ambient, adjusts to background noise, 112 dba shock mounted at the rear.	
9.18.10	OSHA approved body support, both sides	
9.18.11	Unit to be equipped with 49,000 lb. capacity pintle hook (Holland PH760 or approved equal) centered between rear frame rails. Height from ground level to center line of pintle "eye" to be 32 inches.	
9.18.12	Air deflector – hood mounted, blue or smoke. Deflector manufacturer's standard width for the truck mode. Access to front end hood tilt handle to be avoided. Extra handle acceptable.	

Lighting: Weather/shock resistant lights LED type with average amp draw between 9.19 .045 - .72. Grote/Truck Light or equal. All connections to have sure snap plug assemblies and epoxy sealed electronics to protect against shock and vibration. All marker lights 2 1/2 inch diameter flush mount sealed beam lights with integral 9.19.1 reflector mounted in rubber base. 9.19.2 All ground wires to be attached with plated steel fasteners, tack weld not allowed. Rear lights to be shock mounted, recessed oval stop, tail, turn, and recessed oval 9.19.3 back up lights to be mounted in back post. Strobe lights (Trucklite Part # 60360Y or equal) to be marked and switched from dash board location. Center rear I.D. lights three (3) located in truck chassis. 9.19.4 Two (2) amber oval LED strobe lights (Trucklite Part #60360Y or equal) to be 9.19.5 mounted at the front corners of the cab protector, and two (2) amber oval LED strobe lights (Trucklite Part #60360Y or equal) to be mounted at each outside corner of the cab protector. Strobe lights to be marked and switched at dash board location. Auxiliary headlights (Trucklite Part #80888 with 27008 bulb or equal) for 9.19.6 snowplowing application to be shock mounted on fender of unit. The successful vendor to consult WVDOH for mounting position and bracket dimensions. 9.19.7 Two (2) oval amber LED strobe lights mounted at top of rear corner posts right and left sides and to be switched in combination with cab protector strobe. (PSE) amber, Model oulxdlsih or equal) 9.19.8 Must have two (2) rear frame mounted tow hooks 9.19.9 Lighted license plate bracket There should be the following at the front or rear both sides of the body: 9.20 9.20.1 304 stainless steel fold down ladder that locks into position when either in the down or up position 9.20.2 Two (2) 304 stainless grab handles 9.21 Tailgate (304 stainless steel): The tailgate to be hinged at top, flame cut hardware, pork chop type off-set 9.21.1 hardware to achieve maximum opening of tailgate, but shall have provision for pivoting at the bottom.

9.21.2		Flush mount, 1/2 inch flame cut 304 stainless steel tailgate pivots.
9.21.3		Heavy duty offset hinge plates, one (1) inch flame cut 304 stainless steel.
9.21.4		3/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless steel latch plates.
9.21.5		Full perimeter 304 stainless steel boxing with all horizontal edges sloped outward.
9.21.6		Shall have two (2) 10 gauge 304 stainless steel sloped horizontal braces that are flush with perimeter boxing.
9.21.7		There shall be a 7 gauge 304 stainless steel 10-12 inch x 24-26 inch rear feedgate.
9.21.8		Cold roll steel upper pins with grease zerks.
9.21.9		Top hinge channel should have removable, chain tethered keeper pins.
9.21.10		Latching action at the bottom of gate should be operable by the truck driver without leaving the truck cab.
9.21.11		Gate to be self aligning.
9.21.12		Tailgate lower latch pins should be 304 stainless steel 1 1/4 inch diameter.
9.21.13		To have a body integrated or bolt on 304 stainless steel 15 inch spreader apron.
	membe	sign and strength characteristic of the entire body to be such that the unit structural ers and the hoisting system will not suffer any deformation, damage, or structural resulting from raising a distributed full payload.
9.23	Bumpe	ar:
9.23.1		The bumper to be formed out of 1/4 inch roll steel and weigh approximately 10.20 lbs. per square foot.
9.23.2		Bumper face to cover all of truck frame (approximately 12 inches) with two (2) flanges of approximately 2.25 inches top and bottom.
9.23.3		Bumper to be approximately 94 inches overall width
9.23.4		Bumper to be straight across front from centerline of truck chassis approximately 21 inches each side of centerline, making bumper straight approximately 42 inches long in center with ends swept back approximately 30 degrees and approximately 27 inches each side.

9.23.4.1	Bumper to have two (2) access holes for utilization of tow hooks (Reference 9.6)
9.23.5	Upper and lower flanges to be cut and welded solid at point where bumper is bent and ground off smooth.
9.23.6	Bumper to be mounted by two (2) mounting angles bolted to front of truck frame with two (2) 5/8 inch bolts each side.
9.23.7	Mount angle to be approximately 1/4 inch x 3 inches x 8 inches long with four (4) 5/8 inch holes.
9.23.8	Front bumper to be painted Martin Senour Dark Blue #82-5802 or similar.
9.24 U	Inderbody Tool Box:
9.24.1	One (1) tool box to be mounted under body on right side frame rail.
9.24.2	Tool box to be 18 inches high, 24 inches wide, 18 inches deep cradled by a heavy steel angle frame attached to the truck frame.
9.24.3	Construction should be of 14 gauge minimum A-60 galvanneal steel with all seams welded.
9.24.4	Tool box to have a horizontal hinged fold down door.
9.24.5.	Tool box door should have cable or chain to hold the door in a horizontal position.
9.25 L	oad covering system to be electrically or air controlled:
9.25.1	Electric motor assembly to include 12 volt direct drive motor with forward and reverse action, cab mounted control switch, resettable circuit breaker.
9.25.2	Pivot arm assembly should be constructed in a two (2) piece bent arm configuration of approximately 1 1/4 inch 14 gauge steel tubing.
9.25.3	Bent arm extensions to be constructed of minimum of one (1) inch 14 gauge steel tubing.
9.25.4	Rear cross to be constructed of approximately 1 1/4 inch 14 gauge steel tubing.
9.25.5	Pivot arm rests to be included.

Underbody spring to be extension spring approximately 12 inches in length 9.25.6 attached to base of pivot arm and of body with articulating spring mounting bracket. All steel components to be finished with manufacturer's recommended rust 9.25.7 preventative system to include a minimum of adequate primer and paint. Steel cab protector mounted triple bend wind deflector to be provided. 9.25.8 Load covering system to be provided with minimum of 18 oz. black vinyl tarp to 9.25.9 fit 14 foot 6 inch body. Load covering system shall be supplied with all necessary hardware and delivered 9.25.10 to the West Virginia Division of Highways as a complete and operational unit. 9.26 Paint: There shall be no paint on the 304 stainless steel surfaces of the body. 9.26.1 All 304 stainless steel surfaces are to be unpainted and cleaned with an acid wash 9.26.2 solution to remove carbon burning from the stainless steel welds. Non-304 stainless steel components on the body to be painted aluminum. 9.26.3 Front bumper: Martin Senour Dark Blue #82-5802 or similar (See drawing) 9.26.4 Detail/Decorative Stripes with Logo: 9.27 Tailgate and body sides to be outlined with red/silver pre-striped conspicuity 9.27.1 retroflective weather resistant striping. Successful bidder shall consult with WVDOH of proposed striping before review of pilot model. Bidder to describe proposed method of painting in the compliance report and 9.27.2 location of body handrails, handle, grip strut walk rail, and overall body characteristics. WVDOH logo (to be supplied by WVDOH) is attached (black and white copy) 9.27.3 and is approximately 7 inches tall and 7 inches wide. Area behind logo and within 1/2 inch of logo is not to be striped. Stripes should be cut to follow contour of logo, in lieu of straight cut. Striping shall be installed. Striping material to meet the requirements of ASTM.D4956-91 Type V sheeting, 9.27.4a super high-intensity retroflective sheeting consisting of microprismatic retroflective elements. The conspicuity sheeting must meet the requirement of NHSTA, DOT, 49CFR, PART 571 Federal Motor Vehicle safety standards for conspicuity sheeting and be "DOT" approved.

- 9.27.5 The sheeting for both applications above should not exceed more than .0.008 inch thick having approximately 47,000 microprisms per square inch and shall come with an aggressive high tack pressure sensitive adhesive, Reflexite or equivalent.
- 9.27.6 Bidder should attach his proposed paint plan with this bid. It should include chips of samples of proposed paints as well as proposed striping detail on a cab silhouette sheet. Bidder may modify attached striping plan to fit his particular hood or cab shape.
- 9.27.7 Striping as specified shall be installed by the successful bidder. Bidder should consult with the WVDOH representative on proposal for striping before pilot review.
- 9.28 The body shall include all other features considered as standard, but not specifically addressed above.
- 9.29 Vendor must certify that unit offered will meet or exceed the "Occupational Safety and Health Act of 1970" and subsequent amendments.

10.0 SPECIFICATIONS – CENTRAL HYDRAULIC SYSTEM

The central hydraulic system described herein is to be designed to operate the following: A front mounted telescopic dump body hoist cylinder, a hydraulically driven integrated salt and abrasive spreader system requiring the simultaneous operation of two (2) hydraulic motors in two (2) different modes with conveyor reverse, a single acting snowplow lifting cylinder, a snowplow power angle system and an auxiliary equipment drive circuit.

- 10.1 Pump System:
- 10.1.1 Pump: Variable volume pressure compensated load sensing axial piston type.
- 10.1.2 Front mounting flange and main housing/case to be of cast iron construction. Inlet and outlet port section to be of high strength ductile iron with SAE split flange porting.
- Suction port and associated plumbing shall be sized to allow for minimum inlet restriction between the pump and the suction port on the reservoir. (Installation must comply with pump manufacturers allowable inlet condition specifications.)

 *Suction plumbing shall be equal to or greater than pump inlet or suction size.
- 10.1.4 Pressure port to be of the SAE split flange type side mounted for direct bolt mounting of solenoid shut down valve assembly.

Case drain and load sense signal ports to be of the SAE O-ring type. Case drain 10.1.5 line taken directly to tank without passing through the return line filter. Input shaft to have a minimum continuous torque rating equal to 200% of the 10.1.6 imposed load when pump is operated at maximum engine rpm, maximum displacement and system pressure. Minimum SAE "C" keyed. Front input shaft bearing of the heavy duty ball or roller type designed for high 10.1.7 axial and radial loading. Rear shaft bearing of the high speed and load sleeve type design. Bearings to be fully lubricated by flooded case oil. Ramp/swashplate supported by pressure lubricated bearings of the rocker cam or 10.1.8 saddle type for high piston load support. Ramp angle positioning by means of dual servo control cylinders for rapid pump response and precise pump output control. Adjustable load sense and high pressure compensator control valve assembly of 10.1.9 the full cartridge or of bolt-on housing design for ease of replacement and repair. System design and components to provide flow, pressure and performance 10.1.9.1 requirements stated herein with a maximum operating load sense differential pressure of 300 PSI and a maximum standby pressure of 350 PSI for maximum efficiency. If pilot control shifted valving is utilized in the system they are to be designed to be fully functional within this pressure range. High pressure compensator valve to be preset to limit the maximum pump output 10.1.9.2 pressure to the maximum required operating pressure plus load sense differential and margin pressure to prevent premature de-stroking of ramp resulting in reduced or insufficient pump output. Pump Output: Shall be capable of providing hoist cylinder extension required for 10.1.10 a 50 degree body dump angle in 13 seconds at 1500 engine rpm at a 1000 PSI system load. Reference Models: Rexroth A10VO Series 31, Parker P2 Series, Vickers PVH800 10.1.11 Discovery Series. These references are given to represent the overall quality of construction, design and performance of the pump to be supplied. It is the responsibility of the bidder to assure compliance with the written specifications herein. Name of manufacture and model number of proposed pump shall be submitted 10.1.12 with bid documents. Pump supplied shall be of a manufacture's standard product release and design. 10.1.13

Pump models proprietary to a specific bidder and/or OEM are not acceptable.

- Pump driveline assembly to be of the keyed shaft design utilizing a 4 bolt driveshaft flange and matching drive yoke on the pump.
- Driveline to have a minimum continuous torque rating equal to 200% of the imposed load when pump is operating at maximum system requirements.

 Minimum Spicer 1310 series or equal.
- Dual journals and yokes to be incorporated to connect the pump shaft and engine drive flange with an angular misalignment no greater than six (6) degrees and not less than two (2) degrees.

10.2 Pump Shutdown System:

- Normally closed, energize to open, solenoid operated control valve of the cartridge and manifold design to be directly bolted to pump pressure port.

 Solenoid electrical connection of the Packard "Weatherpack" type with "SO" cable wiring.
- Valve controlled by a console mounted "Master On" switch with pilot lamp for normal system operation and by a float switch located in hydraulic reservoir to automatically shut off pump pressure port flow to all down stream functions in the event of low hydraulic oil level.
- Pressure drop across valve not to exceed 40 PSI at 40 GPM flow when in the switched open position. Nominal valve rating of 50 GPM @ 3,500PSI.
- 10.2.4 SAE #6 gauge port equipped with Parker Hannifin model PD361 diagnostic coupling nipple and protective cap provided for pump output pressure testing to be installed in valve manifold and within an easily accessible mounting position.
- Valve to be designed to protect the pump from damage when the system is shut down at high pressure and flow operation.
- 10.2.6 Name of manufacture and model number of proposed valve shall be submitted with bid documents.
- 10.2.7 Central control console mounted audio alarm and warning lamp indicating pump pressure/flow shutdown to be provided.
- 10.2.8 The warning lamp to be a press-to-test light and incorporate a switching system into the automatic shutdown assembly to simulate low oil level, shut off pump output flow and test float switch wiring and connections.
- 10.2.9 A console mounted electrical override function switch to be provided to allow momentary operation of hydraulic functions in emergency situations.

10.3	Valve to be of the stacked section type and of closed center circuit design.
10.3.2	Each work section to be pressure and flow compensated with fully integrated load sense network. Flow output to be relative to spool travel with preset maximum flow rate obtained at maximum spool stroke to provide feathering control of operated function.
10.3.3	Dump body, snowplow lift and snowplow power angle sections to be of the manual cable shift type. Auxiliary circuit section to be of the electric solenoid shift type. Both ends of each section valve spool to be sealed with weather resistant caps or cable entry bonnets.
10.3.4	Valve assembly flow capacity rating and pressure drop characteristics shall be sufficient to provide for the required pump output and circuit flow rates at the specified maximum load sense differential pressure settings.
10.3.5	All valve ports to be of the SAE O-ring seal type and be of sufficient size to handle required section flow rates at stated load sense differential pressure.
10.3.6	Shall have pressure compensation of the spinner and auger sections and also a priority section must be installed to allow for operation of the plow hoist in any circumstance.
10.3.7	Main pressure inlet relief valve provided to reduce system pressure shock loads. To be preset at pressure so as not to interfere with pump pressure compensator and to prevent premature relief opening at system high demand operation.
10.3.8	If pilot pressure reducing valve is required for solenoid section control, design shall meet operating requirements as set forth in section 10.1.9.1. Pilot supply and tank venting to be internal within the valve assembly sections.
10.3.9	Load sense network high pressure relief provided and preset to limit system maximum operating pressure. Set point to provide proper pressure margin to pump pressure compensator and high pressure relief valve as to prevent premature loss of required flow rates and pressure capability.
10.3.10	SAE #6 gauge port equipped with Parker Hannifin PD361 diagnostic coupling nipple with protective cap for load sense testing to be installed in an easily accessible location.
10.3.1	Dump body control section to be 3-way three position spring centered cylinder spool for operation of a single acting hoist cylinder.

- Full flow workport relief valve installed in power up port. Set point to prevent operating pressure from exceeding hoist cylinder normal operating pressure rating.
- Flow limiting system preset at required flow rates to provide performance as stated in section 10.1.10 as maximum for dump body up and down to reduce system over demand operation.
- Snowplow lift control section to be a three (3) way three (3) position spring centered cylinder spool with float detent for operation of a single acting lift cylinder with pilot controlled load lock valves. (If the valve design does not require a load holding check valve to properly carry the plow weight, then the pilot operated load holding check valve may be eliminated.)
- Full flow workport relief valve preset at maximum required unlock pressure installed in power down workport. Workport relief valve also to be installed in power up workport if maximum system pressure output setting exceeds normal operating pressure limit of plow lift cylinder. If three (3) way valve is provided for plow hoist circuit, a full flow work port relief will not be required for the plow lower circuit.
- Adjustable flow control installed to limit downward speed of snowplow. Flow limiting control system preset for proper plow lift speed to be supplied to reduce over demand operation and to increase system efficiency. Flow limit to be determined at time of pilot model review.
- Snowplow power angle control section to be 4-way three position spring centered motor spool for operation of worm gear driven type reversing system.
- Flow limiting control system preset for proper plow reversing speed to be supplied to reduce over demand operation and to increase system efficiency. Flow limit to be determined at time of pilot model review.
- Auxiliary equipment drive circuit control section to be 3-way three position spring centered solenoid operated motor spool. This circuit to be separate and distinct from the spreader control system.
- Flow limiting control system preset to provide a maximum of 22 GPM at a system load pressure of 2200 PSI. Pump shall be capable of supplying this flow rate with engine speed of 1400 RPM.
- An inline mounted control valve may be supplied for this operation in place of directional control valve section. If supplied, proper interconnections and venting of load sense network system shall be provided.

- Pressure line to be ¾" SAE 100R2 hose and manifold mounted at rear of chassis and equipped with Parker Hannifin SH6-62 quick disconnect coupler and protective metal plug. Mating nipple SH6-63 with protective cap to be supplied. Mounting location to be determined at time of pilot model review.
- Name of manufacture and model number of proposed directional and auxiliary circuit valves shall be submitted with bid documents.
- 10.3.15 Directional control valve assembly with tank must be in an enclosure to protect it from the elements.
- 10.4 Spreader Control Valve Assembly:
- Spinner and conveyor solenoid flow controls to be of the PWM proportional solenoid type and equipped with manual overrides. Overrides to be manually adjustable over operating flow range in the event of electrical system failure.
- 10.4.2 Flow control circuits to be pressure compensated and provide a spinner flow rate of 0-7 GPM and a conveyor flow rate of 0-15 GPM. Pressure relief valve system shall limit circuits to a maximum of 2200 PSI.
- Load sense circuits to be connected to directional control valve network for proper pump control. Design shall prevent improper high pressure load sense signal and pressure line loading when spreader valve is not in use and when spreader quick disconnects are uncoupled.
- 10.4.4 PWM solenoid control supplied by microprocessor spreader control system. Solenoids to be capable of 100% PWM signal without failure.
- Solenoid operated directional control valve and in-cab mounted electrical switch to operate spreader conveyor reverse required for front or rear material discharge selection to be provided.
- 10.4.7 Electrical switching and indicator light for spreader clogged indication to be provided.
- 10.4.8 Name of manufacture and model number of proposed valve shall be submitted with bid documents.
- 10.5 Spreader Control System:
- Dual flow, ground speed oriented spreader control system to be of the closed loop microprocessor based type with nonvolatile control memory.
- 10.5.2 Automatic calibration and flexibility of programming are required.

10.5.3	System must be capable of operation in ground speed oriented closed loop conveyor feed back, open loop, manual set, blast and unload modes and be fully functional in both front and rear material discharge selection.
10.5.4	Automatic switchover with display indication from closed loop to open loop operation in the event of loss of feed rate sensor signal to be provided.
10.5.5	Control console digital readouts to be capable of displaying actual application rate, vehicle ground speed, distance of spread route driven and total quantity of material spread.
10.5.6	Programming and output cable connection for material and trip information printer and program uploading to be provided.
10.5.7	Control unit to be capable of accumulating such display information up to 999,999 miles and 999,999 tons of discharged material.
10.5.8	Console programming to be capable of selection, calibration and display of four (4) separate spread materials with independent application rates of each material capable of being set to fixed rates or to rate increments of a preset maximum application rate.
10.5.9	A variable digital access code lockout for application rate selection and for system operating parameters to be provided. A key switch will be acceptable.
10.5.10	Backlighted switches and LCD screen shall be utilized for on-board programming and for display readout and application rate selection.
10.5.11	Material spread width to be selectable by no less than a ten (10) position switch with minimum and maximum spinner speed totally programmable through entire flow range. Spinner speed shall be capable of linking to ground speed for on-off control.
10.5.12	Display must enunciate error message and sound audio alarm when microprocessor system detects any loss of control or accuracy.
10.5.13	System shall be fully functional at time of delivery.
10.5.14	Truck speed sensor to be compatible with type of speedometer drive system supplied on chassis.
10.5.15	A built-in ground speed simulator to be provided either internal to the control or located in the control console.

10.5.16	All components required for proper installation and operation of control system onto truck and spreader units must be supplied.
10.5.17	Name of manufacture and model number of proposed control system shall be submitted with bid documents.
10.6 Centra 10.6.1	l Control Console: To be mounted between seats within easy access of the driver.
10.6.1.1	Warning light (bed raised) to be control console mounted.
10.6.2	All wiring, valve control cables and electrical harness entry into cab and console shall be sealed with grommets.
10.6.3	Remote control valve levers to be console mounted. All levers to be clearly marked as to their function and operation.
10.6.3.1	Remote control levers to operate push-pull type cables with .250" diameter stainless steel rod ends.
10.6.3.2	Inner cable member to be 18-8 stainless steel armor wrapped construction with a low resistance nylon liner and polyethylene covered tempered steel wire conduit.
10.6.3.3	Cable to valve connection shall be of the weather resistant bonneted type.
10.6.3.4	Hoist control lever must be OSHA compliant (hoist interlock)
10.6.4	Central control console or dash mounted rocker switches with indicator lamps to be provided for strobe lights, spreader light and plow lights with all electrical output circuits switched through individual printed circuit board mounted plug in module relays, isolated from all hydraulic system control circuits.
10.6.4.1	All interconnections and cables to be installed and ready for operation.
10.6.4.2	Hydraulic system automatic shutdown system and control switching to be relay controlled on an independent circuit board module.
10.6.4.3	Both circuit board modules to be mounted within the cab.
10.6.4.4	A front console mounted access plate to modules to be provided.
10.7 Hydrai 10.7.1	ulic Reservoir and Valve Enclosure Assembly: Hydraulic reservoir of approximately forty (40) gallon operating capacity to be flex mounted to the chassis frame rail and valve enclosure assembly

10.7.2	Tank to be constructed of seven (7) gauge 304 stainless steel minimum.	
10.7.3	Tank equipped with a combination oil level sight glass and thermometer.	
10.7.4	Tank to be equipped with a pressurized ten (10) micron filler/breather cap wi removable five hundred (500) micron strainer.	th
10.7.5	An internal steel baffle to be provided within the tank	
10.7.6	Tank to be stenciled (letters minimum 1 1/2 "high) "Hydraulic Oil"	
10.7.7	Tank level switch connection to be "SO" type wiring and mounted in an appropriate location in the tank	
10.7.8	Pump supply suction port to be minimum 2" NPT and system return port a minimum 1 1/4" NPT.	
10.8	Filtration:	
10.8.1	Manufacturers standard filtration to adequately protect the hydraulic system damage.	from
10.8.2	Return line filter to be isolated from reservoir by a full flow non-restrictive ty quarter turn brass ball valve if filter is not installed in the reservoir	уре
10.8.3	Each filter to be equipped with a differential pressure switch to indicate filter clogged condition by means of a console mounted indicator lamp.	•
10.8.4	One (1) extra replacement filter for each assembly shall be provided for each truck.	
10.8.5	Filter assemblies to be positioned as close to reservoir as possible and in an e accessible service location.	asily
10.9	Hoses and Fittings:	
10.9.1	Each hose assembly (hose with hose ends), except for suction hose, to be fitted with JIC swivel connections on ends where connection to system component made.	
10.9.2	All pressure line hoses are to meet or exceed SAE Specification 100R2 and to equal to Gates high pressure hose, type C2AT for sizes up to and including 1	

10.9.3	Suction hose to be 2" nominal ID and meet SAE Specification 100R4, braided fiber, spiral wire reinforced, rubber covered hose with replaceable bolt-on type fittings.
10.9.4	All hydraulic hoses to be fully cleaned on interior, installed and ready for operation.
10.9.5	Grommets to be used when routing hoses through steel bracketing or frame members. (Reference 10.9.6)
10.9.6	Snap tite quick disconnects (manifold mounted) shall be supplied for the forward and rear spinner 1/2 inch pressure and return lines. Use of iron or galvanized iron pipe for fittings and connectors is not acceptable.
10.9.7	All fittings and connectors to be of the steel type designed for high pressure hydraulic system use.
10.9.8	Pipe thread ported components and connectors to be used only when the specific component is not available with SAE or JIC porting.
10.9.9	All pipe thread connectors used are to be coated with liquid Teflon pipe sealer prior to assembly. Use of Teflon tape is not acceptable.
10.9.10	Hoses run to the front of truck chassis for snowplow functions to be manifold mounted behind the front bumper with sufficient access for pump service and snowplow hitch installation. Successful vendor should contact WVDOH representative for location prior to pilot model review.
10.9.11	Snowplow lines to equipped with complete ½ inch "VH" series Snap-tite quick disconnects (coupler and nipple to be supplied) and metal caps and plugs.
10.10	Any items not specifically stated herein but necessary for proper system installation and operation shall be supplied and shall comply with recommended hydraulic industry standards.
10.11	Vendor shall be responsible for initial servicing and pre-testing of hydraulic system which includes the following:
10.11.1	Initial fill of reservoir with a high grade 32AW hydraulic fluid to approximately forty (40) gallon level, to be marked on sight glass.

Start-up and initial run of hydraulic system, checking for leaks, excessive heat, 10.11.2 system efficiency, etc. Vendor will be responsible for replacing any defective component. Vendor will not be responsible for initial test of plow circuits if equipment is not available to do so; however, vendor will be responsible for any defects discovered at time of plow installation. Refill reservoir to the forty (40) gallon operating level. 10.11.3 Any hydraulic lines located within 10" of exhaust system to be metal lines and 10.12 insulated. Detailed component specifications, product literature, system component layout 10.13 drawing with bill of materials and full functional hydraulic system schematics, in accordance with JIC and ANSI-Y32 format, shall be submitted with bid documents. Successful vendor shall provide WVDOH with complete list of all filters required 10.14 for normal maintenance on proposed unit. With each purchase order, a minimum of three (3) one (1) day training sessions 10.15 covering the operation, maintenance, trouble shooting and calibration/programming of the hydraulic system and spreader controls to be provided by the successful bidder at an Equipment Division facility. (Based on a purchase of 1-25 units.)

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

It is not necessary to return pages 9 through 43 of the specifications with the bid. DIVISION OF HIGHWAYS EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT

Place all attachments to the back of the Bidder's Evaluation

NO. 371-2-F

Report.

37,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM

NOTE TO BIDDER: Procurement Specification No. 371-2-F, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

	Reference Requisition No.:		
	Bidder's Name:		
	Address:		
	Telephone Number:		
	Years Bidder has been registered to do business with the State of	West Virginia:	_YRS.
	Years Company has been an authorized dealer for proposed unit:		_YRS.
X4.2 X4.2.1	DELIVERY: Delivery date of completed representative unit:	_ Calendar Days After Date of Purchase Agreement	
X4.2.2	Delivery date of balance of completed units:	Calendar Days After Date of Purchase Agree	ement

X5.0	AWARD CRITERIA;			
X5.1	Prices for quantities of	1-25		_per unit
		26-50		_per unit
		51 and Over		per unit
X6.0 X6.1	SPECIFICATIONS - GENERAL Manufacturer, model, series, and date of manufactu	re of proposed unit:		
	Is descriptive literature, fully describing proposed	unit attached to your bid	?YES	NO
	If not, why?			
X6.2	Will the required number of service manuals, and of Division at Buckhannon upon completion of deliver	complete parts list be delery of total units?	ivered to the Equi YES	pment NO
	Will the required Equipment Preventive Maintenance be provided upon inspection of the pilot unit?		of Bidders Evalua YES	

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER=S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH.

DESCRIPTION:				MA	KE:		
M	ODEL:	-12-25-11-25-	YEAR:	PURCHASE AMOUNT:		T:	
ENGINE:	MAKE:		MODEL:		FUEL TYPE:		
	HORSEPOWER:		CYLINDER: _	EN	GINE SERIAL:		
	COOLING SYSTI	EM CAPACITY: _					
BELTS:	DESCRIPTION:			PART NUM			
GVW:		AXLE CAPAC	ITY: FRONT:			REAR:	
TIRES:	FRONT MAKE &	SIZE:					
	REAR MAKE & S	SIZE:			***************************************		
DIMENSIC						LENGTH:	
VENDOR (CONTACT PERSON	V:			PHONE:		
PARTS:							
RATTERV	MAKE		MODEL:		CCA:	•	
TOP OR SI	DE POST:		DIMENSIONS	: LENGTH	WIDTH	HEIGHT	
SPARK PL	UGS OR FUEL INJ	ECTORS MAKE:		PART#			
FUEL PUM	IP OR INJECTION I	PUMP MAKE:		MODEL:			
	TOR MAKE:			PART #:			
STARTER		***************************************		PART #:			
	HARGER MAKE:			PART #:			
TRANS M	AKE:	MODI	EL:		AUTO/MANUA	L:	
HYDRAUL	IC PUMP MAKE: _			MODEL:			
FILTERS	MAKE	PART NO.	LUBR	UCANT	MANUFACTU	JRER TYPE	
OIL			ENGI	NE			
	.						***************************************
AIR OUTF	R		POWI	ER STEERING			
FIEL DELY	MARY		HYDI	N A T TT T2"			
FLIEL GEU		· · · · · · · · · · · · · · · · · · ·	DIFFI				
こうでき なかし	ONDARY		DR A E	E FI IIID			
COOLAIN!	`	<u></u>	COOI	ANT			
	JC		OTHE	***************************************			
OTHER			Oine	<u> </u>			

X6.3 TRAINING:

	Will training seminar be conducted on Preventive Maintenance, Operato	Maintenance, Operator and Mechanic TrainingYESNO			
	Will you conduct training with each purchase order against this open end	contra	ct? _YES	NO	
	Will training be conducted within 2 working days from the delivery of the purchase order?	e pilot	unit on the YES	individual NO	
	If NO, explain time frame				
	Will an Operator's Manual be furnished to the Training Academy?		_YES	NO	
X6.4	If you are the successful vendor, will you furnish all training aids, i.e., vi conducting the training? YESNO	deos, p	rojectors, r	equired in	
X6.4.1	Will all manuals, booklets, etc. explaining preventive maintenance, o schedule be delivered with each unit? If NO, explain	YES	procedure NO	s, and service	
X6.5	WARRANTY AND SERVICE POLICY				
	Will the warranty and service you provide comply with all areas as stated	l in Sec _YES _	tion 6.5 of NO	specifications	
	If NO, explain				
	Is warranty literature attached?	YES	NO		
	Extended service contract coverage:				

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURERS TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH (If additional lines are needed, make copies of form.)

1. De	efine the terms of the star	dard warranty. If not offered, so state. (Attach copy)	
2 De	fine warranty service to	be performed at DOH facilities and warranty service to be performed at	
manu	afacturer's representative	facility. List name and location of manufacturer's representative.	
3. Lis		entories that are within the State of West Virginia. Also, list availability levels, i	f
	uring the term of warrant er will sell the parts to ov	y, list the guarantee discount to manufacturer's published list price for parts that when.	to a manufacture
A. B. C.	Terms: Net 30 Terms: Net 60 Terms: Net 90	Manufacturer's published list price less: % discount Manufacturer's published list price less: % discount Manufacturer's published list price less: % discount	
	uring the term of warrant ways?	y, will all manufacturers or engineering improvements be submitted to Division YESNO	of
6. Dı	uring the term of warrant	y, list the guaranteed rates charged for repair to the unit.	
Α.	Shop Rate	\$per mechanic hour	
B.	Travel Time Charge (Specify if one-way)	\$ per mechanic hour; port to port	
C.	Mileage Charge (Specify if one-way	\$ per vehicle mile; port to port	
D.	Field Mechanic Rate	\$ per mechanic hour	
E.	Specify period of time	e that prices are in effect:	
F	Surcharge for miscell	aneous items:	

	Is all component specifications, product literature, component models pro Committee bid determination?	vided for E YES	
X6.7	Will all parts, equipment, accessories, material, design and performance of herein, but which are necessary to provide a complete unit, be furnished we conform in strength, quality of material, and quality of workmanship to the provided to the market in general by the unit industry?	vith the uni	t and
X6.7.1	Are all parts and accessories adequate and regularly supplied as standard which may be duplications of specifications herein, and except these by sfurnished?	pecification	led except those are not to be SNO
X6.7.2	Are all standard safety features that are required by Federal and State stat	ites of law YE	included? SNO
X7.0	SPECIFICATIONS OF THE QUOTED UNIT The bidder should complete the following schedule in order for the Division unit to the specifications. Should the bidder except a requirement, then so the basis that such feature is not offered by the manufacturer. The Division discretion as to whether the bidder's substitution meets the requirements of	ich exception will have	on may be only on e the sole
X8.0	SPECIFICATIONS – CAB AND CHASSIS		
	Manufacturer: Model:		
X8.1	GVW plate rating: Lbs.		
X8.2	Cab to axle dimension: Ins.		
X8.2.1	Cab to end of frame: inches		
X8.3	Wheelbase: inches, set forward design for our snowplow app	olications	
X8.4	Frame: Will you provide a frame that meets or exceeds all Federal require that has an integral front frame extension with no frame cutouts except to	ements for of allow enging YES	ne installation?
	Will extension extend forward of the grille area a minimum of 12 inches	YI	ESNO
	Warranty on frame: years and conform to the following:		
X8.4.1	Frame steel: 120,000 PSI yield strength minimum	YES	_NO

Wipers equipped with snow type blades

Windshield wipers and washers: Manufacturers heaviest duty artic type with intermittent feature

_____YES _____NO

YES ____NO

X8.5.4

X8.5.5

X8.5.6	Instruments: Are manufacturer's gauges with visual and/or audible, and/or programmable warning to inform driver when operating conditions are exceeded included:				
X8.5.6.1	Voltmeter or ammeter	YES	NO		
X8.5.6.2	Engine RPM tachometer	YES	NO		
X8.5.6.3	Speedometer with odometer Are provisions for dual speedometers leads available	YES YES	NO NO		
X8.5.6.4	Air pressure gauge(s)	YES	NO		
X8.5.6.5	Air filter to be manufacturers heaviest duty dual elemen	t type YES	NO		
X8.5.6.6	Air filter restriction indicator dash mounted	YES	NO		
X8.5.6.7	Engine hourmeter (controlled by engine operation)	YES	NO		
X8.5.6.8	Fuel gauge(s) with low fuel warning indicator	YES	NO		
X8.5.6.9	Is unit equipped with front air intake Is an air actuated or cable control valve provided to enal engine compartment while in snow plowing application	ble operator	to divert air ir		
X8.5.6.10	Oil pressure gauge	YES	NO		
X8.5.6.11	Temperature gauge	YES	NO		
X8.5.6.12	Low coolant indicator	YES	NO		
X8.5.7	Accessories:				
X8.5.7.1	Manufacturers dash mounted extended two (2) cup drin	k holder YES	NO		
X8.5.7.2	Air horns with snow shields If cab mounted, adequate clearance for future installation	YES n of dump l YES	oody cab prote	ctor	
	Single horn without snow shield Mounted downward on frame rail under hood	YESYES	NO		
X8.5.7.3	Rearview Mirrors: Heated dual, West Coast Type YES NO Power adjustable with convex spot mirror to include for Corrosive resistant finish equal to stainless steel, powder mounting brackets	Size: re and aft br or coat or alu YES	ımınum housii	re with 1g and	

⟨8.5.7.4	Grab Handle: Right hand and left hand sides internal or external mon	unting to rear YES	of door ope	52 ening
	If inside handles, one (1) outside, left, mounted grab haggregate inspection furnished	andle with no	on-slip inser NO	t for bed
8.5.7.5	Glass: Manufacturers tinted safety glass; front, sides,	and rear	_YES	NO
8.5.7.5.1	Dual power windows	YES	NO	
8.5.7.6	Radio: Manufacturers standard AM/FM stereo Weather band radio feature	YESYES	NO	
8.5.7.7	Air Conditioning: Manufacturers fresh air type heavis RCD system to include replaceable fresh air filter			equivalen
8.5.7.8	Manufacturers stationary grille or grille with cutout ar plow mount Bug screen provided behind grille	rea to allow ti YES YES	lt hood to c NO NO	lear snow
(8.5.7.9	Front mudflaps manufacturers standard for unit bid _			
8.5.7.10	Emergency triangle warning kit, with hold down or ste Make/Model:	owed in the c YES	ab NO	
8.5.7.11	Does unit include kit for front mounted CB radio and include co-ax cable, antenna, speaker, etc. All cable and wiring routed using grommets and wire	YES	NO	ring to
	Radio make and model:			
8.5.7.12	Two (2) front frame mounted tow hooks or eyes	YES	NO	
8.5.7.13	Accessories included in manufacturers standard cab n			
8.6 Engine:				***************************************
J	Model:			
		ле @	RPM	
	s engine manufacturer made provisions for front mounted	hydraulic pu		shaft pul

X8.6.2	Diesel engine: HP @ RPM
X8.6.2.1	Peak torquelb. ft.
X8.6.2.2	Fuel heater/water separator mounted inside engine compartmentYESNO
	Manufacturer:
X8.6.2.3	Engine block heater watt/ v rating includes weather proof spring loaded cap over plug YES NO
X8.6.2.4	Single vertical exhaust pipe with horizontal muffler that meets all Federal noise abatement requirementsNO
	Exhaust frame mounted on the passenger side of unit with heat shield on vertical exhaust YES NO
X8.6.2.5	Engine equipped with engine brakeYESNO
	Compression YES NO (or) Compression/Exhaust YES NO (or)
	Exhaust YES NO
	Manufacturer:
X8.6.2.6	Is engine oil pan zinc nickel platedYESNO (OR)
	Aluminum YES NO (OR) Non-Corrosive coated YES NO
X8.6.2.7	Engine provides electronic speed control including throttle and cruise control featuresYESNO
X8.7 Coo	ling System:
X8.7.1	Is cooling system capable of maintaining engine temperature within the manufacturers recommended range during continuous winter/summer operation YESNO
	Does unit provide an automatic "on-off" fan drive with nylon fan bladesYESNO Manufacturer:
X8.7.2	Will the system be filled with permanent type extended life coolant Dex-Cool or equivalent rated at a -34°F minimum YES NO
X8.7.3	Does the radiator provide adequate clearance to facilitate the installation of a crankshaft driven PTO drive shaft YES NO
	The distance between the extreme tip of the radiator fan blade and the centerline of the

	Radiator and heater hoses are silicone type or approved equivalent with or equivalent utilized on radiator hoses to minimize cold water leaks		
X8.7.4	Radiator and heater hoses:		
X8.8 Fuel 7	Fank:		
X8.8.1		YES	NO
	Filler Cap is chain tethered YES NO		
X8.9 Electr	rical System:		
X8.9.1	Type: volt negative ground system includes manual reset circuit SAE Type III with trip indicators to replace all fuses except for 5 amp f		
X8.9.2	Batteries:		
X8.9.2.1	Cold Crank AMPS AMPS with sealed terminals		
X8.9.2.2	Jump start studs mounted on outside of battery box	YES_	NO
X8.9.3	Alternator Capacity: AMPS brushless with internal regulat	or	
X8.9.4	Lighting:All lighting conforms to the West Virginia Motor Vehicle Cod	e	YESNO
	Unit features daytime running lights	YES_	NO
	Cab marker lights are LED type with halogen headlamps.	YES_	NO
X8,9.5	Is auxiliary snow plow lighting package included	YES	NO
X8.9.5.1	Will truck vendor eliminate rear taillights Is there at least eight (8) foot of wiring bundled at end of frame to faillights provided in dump bed body	for body	
X8.9.6	Will manufacturer YES NO or successful vendor Y provisions for manufacture approved wiring and weatherproof disconne	ct plug	NO make NO
	Manufacturer and Part number		
	Will there be three (3) foot "pigtail" to operate front combination left an lights/auxiliary headlights.	ıd right t	urn/park
X8.9.6.1	Is weatherproof disconnect plug located at lower left front grille.	/bumper YES_	
	Are all wiring connections weatherproof with wiring encased in	wire loo YES	ms NO

X8.9.6.2	Are provisions for 7-way trailer connection light socket mounted	at rear of to	ruck frame55
	Manufacturer and Part number		
X8.9.6.3	Will manufacturer provide body builder circuit interface capabilit located at rear of frame for body builder connection to stop, tail, a circuits, ignition controlled auxiliary feed to ground to provide sp integrity	and marker	light assis wiring
X8.9.6.4	Will manufacturer provide body builder circuits – three (3) switch instrument panel with one (1) weather protected body builder conlocated at the rear under cab.	mection bo	x or module
	Is this power module 20 amps per channel, 80 amp maximum out	put YES	NO
	Do the dash switches control the power module with LED backling	ghting _YES	NO
X8.10 Tran	nsmission/Clutch:		
X8.10.1	Manual: Does the transmission torque capacity exceed provided engine torque	YES	NO
X8.10.2	Clutch: Two plate, ceramic 14 inch diameter, mechanical pull type control and v featureYESNO	with kiwk-a	djust manual
X8.11 Driv	veline:es it have a greasable main shaft	_YES	NO
X8.12 Rear	r Axle:		
X8.12.1	Rated Capacity: Lbs. Single reduction includes driver control	rolled main _YES	lockingNO
X8.12.2	Rear Spring Capacity: Lbs. including lb. capacity: b. capacity:	city load sta YES	abilizer NO
	Does it provide sufficient clearance between spring, brake chambers, and single tire chains	d tires to op YES	perate with NO
X8.12.3	Gear ratio: Are vehicles capable of a top speed of 70 MPH	_YES	NO
X8.12.4	Is rear axle differential, transmission, and front wheel lubrication reserve type lubrication and provided with magnetic drain plugs where applicable	oirs filled w	vith synthetic ESNO

X8.13 Front 2 X8.13.1	Axle: 5 Capacity: lbs. I-beam type	6
X8.13.2	Front Spring Capacity: lbs. for use with front plow	
X8.13.3	Manufacturers heavy duty shock absorbersYESNO Make:	-
X8.13.4	Front wheel oil lubricated wheel seals YES NO Make:	**
X8.14 Brakes	s:	
X8.14.1	Type: Full air, with manufacturers ABS with traction control in compliance with the most current FMVSS requirementsYESNO	
X8.14.2	Compressor: Model and Make:CFM	
X8.14.3	Service Brake Size:	
X8.14.3.1	Front:	
X8.14.3.2	Rear:	
X8.14.4	Parking Brake: Spring set, air release actuating rear axle service brakesYESNO	
	Instrument panel controlYESNOMGM	
X8.4.4.1	Are all brake chambers sealed brake chambers with epoxy exterior coat on front and reachambersYESNO Make:	ır
X8.14.5	Air dryer with heater YES NO Make and Model:	
X8.14.6	Manufacturer's standard air tanks for service brakes; auxiliary tank for parking brakeYESNO	
X8.14.7	Low air pressure warning light and buzzer YESNO	
X8.14.8	Do brakes meet all current Federal and State FMVSS requirementsYESNO	
X8.14.9	Are brake dust covers installed on all wheelsYESNO	
X8.14.10	Is unit equipped with tractor protection valve and hand control valve to accommodate installation of glad hands at rear of frame rails to enable unit to pull an air-braked trailer YESNO	on
X8.14.10.1		Ю

X8.14.10.1

X8.15 Tires a	and Wheels:			57
X8.15.1	Wheel, Front and Rear x hub piloted steel disc type, to tire size YE	s accommo	odate speci IO	fied
	Make and Model: with 0.472 inches this	ckness	YES	NC
	All wheels include wheel guard separatorsYE	S N	Ю	
X8.15.2 X8.15.2.1	Tires: (Describe) Front:		•	
X8.15.2.2	Rear:			
X8.16 Manut	facturers standard power steering for front axle specifiedYE	S N	Ю	
Manuf	facturer:			
X8.17 Featur	res considered as standard equipment not specifically addressed:			
X8.18 Paint: X8.18.1	Specify cab exterior and interior color and paint type:			
X8.18.2	Is truck grille manufacturer's standard similar to silver/aluminum in co	olor?	YES	NO
X8.18.3	Are fuel tanks, steps, air tanks and battery box non-corrosive coated?	YE	S N	С
X8.18.3.1	Is wheel paint provided as specified?	YES_	NO	
X8.18.4 X8.18.4.1	Detail/Decorative Stripes with Logo: Are stripes provided 2" type with taper at front of hood?	YES _	NO	
X8.18.4.2	Does the conspicuity striping material provided meet requirem through 8.18.4.6 of the specification section?		ction 8.18. NO	4.3
	Will you install the striping?	YES_	NO NO	
X8.18.4.7	Is your proposed paint plan attached with your bid?	YES_	NO	
	If not, why?			
X8.19 Does t	the proposed unit meet or exceed the "OSHA of 1970" and/or subsequen	nt changes YES	s? NO	

1 Pre	ventive Maintenance and Operator's Training School:		
1.1	Will a preventative maintenance and operator's training seminar be p	provided? YES	NO
1.2	If you are the successful vendor, will you furnish all training aids, i.e required in conducting the training?	e., videos, proje YES	ectors, NO
1.3	Will all manuals, booklets, etc. exp0lainint preventive maintenance, service schedule be delivered with each unit? If NO, explain	YES	dures, ai NO
SPE	ECIFICATIONS – 304 STAINLESS STEEL COMBINATION DUMP/S	SPREADER BO	ODY
the	bidder should complete the following schedule in order for the Division to the specifications. Should the bidder except a requirement, then such basis that such feature is not offered by the manufacturer. The Division of whether the bidder's substitution meets the requirements of the specification.	h exception ma will have the s	y be onl
the as to Ref	to the specifications. Should the bidder except a requirement, then such	h exception ma will have the s cations.	y be onl
the as to Ref Bid	to the specifications. Should the bidder except a requirement, then such basis that such feature is not offered by the manufacturer. The Division of whether the bidder's substitution meets the requirements of the specificerence Requisition No. on request for proposal:	h exception ma will have the s cations.	y be onl
the as to Ref	to the specifications. Should the bidder except a requirement, then such basis that such feature is not offered by the manufacturer. The Division of whether the bidder's substitution meets the requirements of the specific erence Requisition No. on request for proposal: der's Name:	h exception ma will have the s cations.	y be onl
the as to Ref Bid Add	to the specifications. Should the bidder except a requirement, then such basis that such feature is not offered by the manufacturer. The Division of whether the bidder's substitution meets the requirements of the specific before Requisition No. on request for proposal: der's Name: dress:	h exception ma will have the s cations.	y be only
the as to Ref Bid Add	to the specifications. Should the bidder except a requirement, then such basis that such feature is not offered by the manufacturer. The Division of whether the bidder's substitution meets the requirements of the specificience Requisition No. on request for proposal: der's Name: der's Name: ephone Number:	h exception ma will have the s cations. Yrs.	y be only ole discr
the as to Ref Bid Add Tele Yea	to the specifications. Should the bidder except a requirement, then such basis that such feature is not offered by the manufacturer. The Division of whether the bidder's substitution meets the requirements of the specific erence Requisition No. on request for proposal: der's Name: der's Name: ephone Number: ephone Number: muss Company has been an authorized dealer for proposed unit: mufacturer, model, series, and date of manufacture of proposed combinations are companied in the series and date of manufacture of proposed combinations.	h exception ma will have the s cations. Yrs.	y be only ole discrete

X9.1	Body capacity cubic yards	water level			
X9.2.	Sideboard pockets and tailgate hei	ght provide additio	nal capacities of	_cubic yard	
X9.3	Front body bulkhead 3/16 inch 304	4 stainless steel	-	YES	NO
X9.4	Cab shield has sufficient clearance terrain?	e to ensure shield w		n dumping on ι YES	
X9.5	Two (2) front truck frame mounted	d tow hooks or eyes	s accessible through th	e bumper YES	NO
X9.6 X9.6.1	Dimensions: Inside length of body	inches			
X9.6.2	Inside width of bodygravity of the unit	inches wide	e to maximize capacity	and lower the	center of
X9.6.3	Outside width of body	inches at 1	the integral fenders		
X9.6.4	Body spacing from cab	inches			
X9.6.5	Basic minimum side height	tinche	es (measure from the f	loor to top rail)	
X9.6.6	Tailgate minimum height _	inches	(measure from the flo	or to top rail)	
X9.6.7	Body overhang	inches to	inches (measure	from center of	hinge pin)
X9.6.8	Cab protectorair horns	inches x	inches with adequa	ate clearance for	r cab mounted
X9.7	Are cab protectors sloped rearward	1 for drainage purpe	oses _	YES	NO
X9.8	Construction of the body sides, fro Specifications	ont, head, and tailga	te conform to the follo	owing minimum	1
	Steel types are 304 stainless steel		•	YES	NO
X9.8.1	Floor: inch thi	ickness			
X9.8.2	Sides: inch thi	ickness			
X9.8.3	Tailgate plate:	_ inch thickness			
X9.8.4	Top rail: inch	thickness			
X9.8.5	Cab protector:	gauge			
X9.8.6	Longitudinal: inch	gauge 304	stainless steel formed	inner/g	gauge 304

X9.8.7	,	For future potential pre-wet application, will the combination body	be capable of ac	cepting
		frame mounted approximately 85 gallon poly liquid tanks.		
		Will the body be designed to allow maximum protection to the tanks	s YES	NO
X9.9	Is all v	velding inside the body continuous, not skip welded.	YES	NO
	Are all	rails and posts continuous welded	YES	NO
X9.10	Are th	e rear corner posts full length, one (1) piece construction	YES	NO
X9.10.	1	Is a rear bolt on spreader apron provided	YESYES	NO
		Is it integrated into the rear of the bed	YES	NO
X9.11		otector sides, formed with gussets, extend forward inches. C is inches	learance above	highest point
X9.12	Is the l	oody a unibody design – no crossmembers	YES	NO
X9.12.	.1	The body has one (1) piece sides and floor which incorporates a slop adequately feed material to the conveyor chain.	ping floor to sid YES	e radius to NO
X9.12.	2	Do the sides of the body slope to the conveyor to facilitate self clear	ning of body wit	hout raisingNO
X9.13	The bo	exed top rail is sloped inward to shed debris	YES	NO
X9.14		ngth 304 stainless steel integral rear fenders are continuously welded truck chassis	and positioned YES	over wheels NO
X9.15	An int	egrated center conveyor provides the ability of the body to convey gr lown	anular materials	with the NO
X9.15.		llowing features are provided: Does the conveyor have no more than 12 inch truck frame to body for gravity and lower mounting height	loor height for l YES	
X9.15.	1.1	Have you used wood YES NO Type of material		
X9.15.	2	1/4 inch 304 stainless steel conveyor floor YESNO (AR400)	or abrasion resi	stant steelNO
X9.15.	.3	2 inch diameter front and rear shafts with eight (8) tooth sprockets	YES	NO
X9.15.	.4	Drive sprockets are double keyed to shaft	YES	NO
X9.15.	.5	Conveyor width – 28 inches	YES	NO
X9.15.	6	Conveyor is reversible	YES	NO

X9.15.7	Conveyor is driven with 25:1 planetary gearbox drives or equal on bot with 5.0 CR hydraulic motors	th the front YES _		a 16 51
	One (1) motor has an integral conveyor speed sensor	YES _	NO	
X9.15.8	Conveyor chain is D667K pintle type (24,500 lb. tensile/strand) with a inch conveyor crossbars welded to every link			1/2
X9.15.9	A 10 gauge 304 stainless steel bolt in pan under the conveyor to keep	material off		me
X9.16 The b	body has the capability to convey to the front or the rear with a material strial:	spinner for o	listributing	
X9.16.1	For front spreading, a front feedgate integrated into the head sheet of tinches	he body	inches	x
X9.16.2	A 304 stainless steel front spinner chute is mounted between chassis fi body down be completely enclosed to prevent material from dropping	rame rails a on chassis YES	drive shaft	:
X9.16.3	For rear spreading, a gauge 304 stainless steel inch x the body tailgate	inch rea	r feedgate	in
X9.16.4	Is the rear feed gate lever operated YES NO or screw adjust	stable	_YES	NO
	Is the feedgate capable of being positively locked into position	YES	NO	
X9.16.5	The front spinner bracket and chute is mounted to the truck chassis fra capability the rear spinner chute and brackets are installed by the succe		or	ling
X9.16.6	The spinner assembly is universal and may be used at front or rear	YES	NO	
X9.16.7	Spinner assembly is adjustable left to right, and up and down to assure placement of material on spinner disc to facilitate control of spread pa		NO	
X9.16.8	10 gauge 20 inch diameter spinner disc has replaceable machined hub	YES	SNC)
X9.16.9	Is the spinner 409 or 304 stainless steel	YES _	NO	
X9.16.10	If spinner hydraulic motor is mounted on top of spinner disc, is the more removable material shedding protective cover	otor enclose YES		
X9.17 Hydr	raulic Hoist:			
X9.17.1	Trunnion Mount YES NO or top lift telescopic hoist	YES	NO	
X0 17 2	Telescopic hoist is no less than N.T.E.A. Class 40	YES	NO	

X9.17.3	Single hoist cylinder is trunnion mount	YES	NO or top lift	YES	N62
X9.17.4	Hoist cylinder has three (3) stages with Stage	inches o	f stroke with a six	(6) inch dia	meter first _NO
X9.17.5	The cylinder has wear and corrosion resists	ant nitrided	cylinder tubes	YES	NO
X9.17.6	Cylinder warranty: years				
X9.17.7	A five (5) degree oscillating cylinder collar mount cylinder is provided	r protects the	e cylinder against s	side stress if	trunnion _NO
X9.17.8	The body has 6 inch x 8 inch x 1/2 inch str chassis frame	uctural angle		bly installed YES	
X9.17.9	The rear hinge assembly has cold roll steel hinge blocks with grease zerks	hinge pins	connecting to 2 1/2	inch YES	_NO
X9.18 The	following features are included:				
X9.18.1	Warning light (bed raised) control console	mounted		YES	_NO
X9.18.2	Hydraulic oil level reading			YES	_NO
X9.18.3	Safety decals as required			YES	_NO
X9.18.4	304 stainless steel mud guards, 10 gauge x of rear wheels	24 inches x		ently attach YES	
	Will exhaust stack be aligned for body clea	arance	***************************************	YES	_NO
X9.18.5	304 stainless steel shovel bracket			YES	_NO
X9.18.6	304 stainless steel gussets (board pockets) rear and mid-rail	for 4 inch x	6 inch lumber (rot	igh) located YES	at front andNO
	4 inch x 6 inch (rough) oak sideboards sup	plied and bo	olted through the gr	ussets YES	_NO
	Painted aluminum to match the body			YES	_NO
X9.18.7	Does the unit have air operated tailgate wit side)	th dual brake	e chamber air tailg ———	ate latches (YES	one on each NO
	Pivot shafts included stainless steel bushin	gs to elimin	ate seizing	_YES	_NO
X9.18.8	1 1/2 inch 304 stainless steel grip strut wal	k rail install	ed on both sides o	f the body _YES	NO
X9.18.9	OSHA approved backup alarm, electronic mounted at the rear	ambient, ad	justs to backgroun	d noise, 112 _YES	dba shock NO

X9.18.10	OSHA approved body support, both sides	YES	NO
X9.18.11	Unit equipped with 49,000 lb. capacity pintle hook centered between	n rear frame rai YES	ls NO
	Manufacturer and Model:		
	Height from ground level to center line of pintle "eye": inche	es	
X9.18.12	Air deflector-hood mounted, blue or smoke	YES	NO
	Deflector manufacturer's standard width for truck mode Width:	YES	NO
	Access to front end hood tilt handle	YES	NO
	Extra handle	YES	NO
_		between .045 - YES	.72 NO
	ufacturer and Model:		
	connections have sure snap plug assemblies and epoxy sealed electroni vibration	cs to protect aga YES	ainst shock NO
X9.19.1	All marker lights 2 1/2 inch diameter flush mount sealed beam light mounted in rubber base	ts with integral:YES	reflector NO
X9.19.2	All ground wires attached with plated steel fasteners	YES	NO
X9.19.3	Rear lights shock mounted, recessed oval stop, tail, turn, and recess mounted in back post	ed oval back up YES	
	Strobe lights marked and switched from dash board location	YES	NO
	Make and Model:		
X9.19.4	Center rear I.D. lights three (3) located in truck chassis	YES	NO
X9.19.5	Two (2) amber oval LED strobe lights mounted at the front corners (2) amber oval LED strobe lights mounted at each outside corner of	f the cab protect	or
	Make and Model:	I Lin	110
		YES	
X9.19.6	Auxiliary headlights for snowplowing application shock mounted of	on fender of unit	NO
	Make and Model:	YES	

Two (2) oval amber LED strobe lights mounted at top of rear corner p switched in combination with cab protector strobe	osts right and YES	left sides &r4 NO
Manufacturer and Model:	-	
Two (2) rear frame mounted tow hooks	YES	NO
Lighted license plate bracket	YES	NO
e following at the front or rear both sides of the body:		
304 stainless steel fold down ladder that locks into position when eith position	er in the down	n or up NO
Two (2) 304 stainless grab handles	YES	NO
te (304 stainless steel):	YES	NO
Tailgate hinged at top, flame cut hardware, pork chop type off-set har opening of tailgate, but has provision for pivoting at the bottom	dware to achi YES	eve maximum NO
Flush mount, 1/2 inch flame cut 304 stainless steel tailgate pivots	YES	NO
Heavy duty offset hinge plates, one (1) inch flame cut 304 stainless st	eelYE	SNO
3/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless ste	el latch platesYES	NO NO
Full perimeter 304 stainless steel boxing with all horizontal edges slo	ped outward YES	NO
Two (2) 10 gauge 304 stainless steel sloped horizontal braces that are Boxing	flush with pe	erimeter NO
7 gauge 304 stainless steel 10-12 inch x 24-26 inch rear feedgate	YES	NO
Cold roll steel upper pins with grease zerks	YES	NO
Top hinge channel has removable, chain tethered keeper pins	YES	NO
Latching action at the bottom of gate operable by the truck driver wit	hout leaving t	he truck cab NO
Gate is self aligning	YES	NO
Tailgate lower latch pins 304 stainless steel 1 1/4 inch diameter	YES	NO
Body integrated or bolt on 304 stainless steel 15 inch spreader apron	YES	NO
	Manufacturer and Model: Two (2) rear frame mounted tow hooks Lighted license plate bracket e following at the front or rear both sides of the body: 304 stainless steel fold down ladder that locks into position when eith position Two (2) 304 stainless grab handles te (304 stainless steel): Tailgate hinged at top, flame cut hardware, pork chop type off-set har opening of tailgate, but has provision for pivoting at the bottom Flush mount, 1/2 inch flame cut 304 stainless steel tailgate pivots Heavy duty offset hinge plates, one (1) inch flame cut 304 stainless st 3/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless steel Full perimeter 304 stainless steel boxing with all horizontal edges slo Two (2) 10 gauge 304 stainless steel sloped horizontal braces that are Boxing 7 gauge 304 stainless steel 10-12 inch x 24-26 inch rear feedgate Cold roll steel upper pins with grease zerks Top hinge channel has removable, chain tethered keeper pins Latching action at the bottom of gate operable by the truck driver wit Gate is self aligning Tailgate lower latch pins 304 stainless steel 1 1/4 inch diameter	Manufacturer and Model: Two (2) rear frame mounted tow hooks Lighted license plate bracket e following at the front or rear both sides of the body: 304 stainless steel fold down ladder that locks into position when either in the down position Two (2) 304 stainless grab handles te (304 stainless steel): Tailgate hinged at top, flame cut hardware, pork chop type off-set hardware to achi opening of tailgate, but has provision for pivoting at the bottom YES Flush mount, 1/2 inch flame cut 304 stainless steel tailgate pivots Heavy duty offset hinge plates, one (1) inch flame cut 304 stainless steel 3/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless steel latch plates YES Full perimeter 304 stainless steel boxing with all horizontal edges sloped outward YES Two (2) 10 gauge 304 stainless steel sloped horizontal braces that are flush with pe Boxing 7 gauge 304 stainless steel 10-12 inch x 24-26 inch rear feedgate YES Cold roll steel upper pins with grease zerks Top hinge channel has removable, chain tethered keeper pins YES Latching action at the bottom of gate operable by the truck driver without leaving the yes.

ho	sign and strength characteristic of the entire body such that the unit structural members and the 65 isting system will not suffer any deformation, damage, or structural failure resulting from raising a tributed full payloadYESNO
X9.23 Bu	mper:
X9.23.1	Bumper formed out of 1/4 inch roll steel YES NO
	Weighslbs. per square foot
X9.23.2	Bumper face covers all of truck frame (inches) with two (2) flanges of inches top and bottom YES NO
X9.23.3	Overall width of bumper: inches
X9.23.4	Bumper straight across front from centerline of truck chassis inches each side of
	Centerline, making bumper straight inches long in center with ends swept back
	degrees and inches each side.
X9.23.4.1	Does bumper have two (2) access holes for utilization of town hooksYESNO
X9.23.5	Upper and lower flanges cut and welded solid at point where bumper is bent and ground off smoothYESNO
X9.23.6	Bumper mounted by two (2) mounting angles bolted to front of truck frame with two (2) 5/8 inch bolts each side YES NO
X9.23.7	Mount angle inch x inches x long with four (4) 5/8 inch holes YES NO
X9.23.8	Paint on front bumper:
X9.24 Ųr	derbody Tool Box:
X9.24.1	One (1) tool box mounted under body on right side frame rail YESNO
X9.24.2	Tool box inches high, inches wide, inches deep cradled by a heavy steel angle frame attached to the truck frame YES NO
X9.24.3	Construction gauge, galvanneal steel with all seams weldedYESNO
X9.24.4	Tool box has horizontal hinged fold down door YESNO
X9.24.5	Tool box door has cable or chain to hold the door in a horizontal positionYESNO
X9.25 Lo	ad covering system electrically or air controlledYESNO
X9.25.1	Electric motor assembly includes 12 volt direct drive motor with forward and reverse action, cab mounted control switch, resettable circuit breaker YESNO

X9.25.2	Pivot arm assembly constructed in a two (2) piece bent arm configura	ation of	inch
	gauge steel tubing	YES	NO
X9.25.3	Bent arm extensions constructed of inch gauge steel	tubing	
X9.25.4	Rear cross constructed of inch gauge steel tubing		
X9.25.5	Pivot arm rests included	YES	NO
X9.25.6	Underbody spring extension spring inches in length attached body with articulating spring mounting bracket	to base of piv	ot arm and of NO
X9.25.7	All steel components finished with manufacturer's recommended rus adequate primer and paint	t preventative YES	system with NO
X9.25.8	Steel cab protector mounted triple bend wind deflector provided	YES	NO
X9.25.9	Load covering system provided with a oz. black vinyl tarp to t	fit 14 foot 6 in YES	ch body NO
X9.25.10	Load covering system supplied with all necessary hardware and delivision of Highways as a complete and operational unit.	vered to the W YES	est Virginia NO
X9.26 Paint: X9.26.1 – X9	Describe proposed method of painting .26.4		
X9.27 Detail Will s	Decorative Stripes with Logo: triping and detailing you provide comply with requirements of Section	1 9.28.1 throug YES	th 9.28.7
X9.28 All bo	dy features considered as standard, but not specifically addressed:	1155	
X9.29 Does t	he proposed unit meet or exceed the "OSHA OF 1970" and/or subseq	uent changesYES	NO

Is the central hydraulic system designed to operate the following:

	spread- modes	t mounted telescopic dump body hoist cylinder, a hydraulically driven intersystem requiring the simultaneous operation of two (2) hydraulic motor with conveyor reverse, a single acting snowplow lifting cylinder, a snowp, and an auxiliary equipment drive circuit YES	rs in two (2) o plow power a	different
	Bidder	•		
	Addres	ss:		
	Teleph	one Number:		
	Years	company has been an authorized dealer for proposed unit: ye	ars	
	Manuf	acturer, model, series, and date of manufacture of proposed central hydran	alic system:	
	Is desc propos	riptive literature full describing proposed central hydraulic system attache al?	ed to your bid _YES	
	If NO,	refer to specification statement Section 6.6		
	When to the l	will required number of operating manuals, service manuals, and complet Equipment Division at Buckhannon? prior to deliver of unit o	e parts list be	e delivered
X10.1 X10.1.	-	System: Pump: Variable volume pressure compensated load sensing axial piston	type _YES	NO
X10.1.	2	Front mounting flange and main housing/case of cast iron construction_	YES	NO
		Inlet and outlet port section of high strength ductile iron with SAE split i	flange porting _YES	
X10.1.	3	Is suction port and associated plumbing sized to allow for minimum inle pump and the suction port on the reservoir	t restriction t _YES	etween the NO
		Does installation comply with pump manufacturers allowable inlet condi	ition specific	ations
		Is suction plumbing equal to or greater than pump inlet or suction size	YES	NO
X10.1.	4	Is pressure port of the SAE split flange type side mounted for direct bolt shut down valve assembly	mounting of YES	Solenoid NO

X10.1.5	Case drain and load sense signal ports of the SAE O-ring type	YES	NO	68
	Case drain line taken directly to tank without passing through the retu	ern line filter YES	NO	
X10.1.6	Input shaft has a minimum continuous torque rating equal to% pump is operated at maximum engine rpm, maximum displacement a	of the imposend system pre	ssure	hen
	SAE "C" keyed	YES	NO	
X10.1.7	Front input shaft bearing heavy duty ball or roller type designed for h	igh axial and YES		ding
	Rear shaft bearing of the high speed and load sleeve type design	YES	NO	
	Bearings fully lubricated by flooded case oil	YES	NO	
X10.1.8	Ramp/swashplate supported by pressure lubricated bearings of the rochigh piston load support	cker cam or sa YES		e for
	Ramp angle positioning by means of dual servo control cylinders for precise pump output control	rapid pump re YES		nd
X10.1.9	Adjustable load sense and high pressure compensator control valve as or of bolt on housing design for ease of replacement and repair			ridge
X10.1.9.1	System design and components provide flow, pressure and pe	rformance rec	luirement	iS
	with a maximum operating load sense differential pressure of	PSI a	nd a	
	maximum standby pressure ofPSI for maximum effic	iency.		
	If pilot control shifted valving is used, is it designed to be full pressure range	y functional v YES		3
X10.1.9.2	High pressure compensator valve preset to limit the maximum maximum required operating pressure plus load sense different prevent premature de-stroking of ramp resulting in reduced or	ntial and marg	gin pressu oump out	re to
X10.1.10	Pump Output: Is it capable of providing hoist cylinder extension requdump angle in 13 seconds at 1500 engine RPM at a 1000 PSI system	uired for a 50 load Y	degree b	ody _NO
X10.1.11	Is the make and model bid in compliance with overall quality of consperformance of the pump supplied	truction, desig	gn, and NO	
X10.1.12	Pump: Manufacturer and Model:			
X10.1.13	Is pump manufacturers standard product release and design	YES	NO	

X10.1.14	Is pump driveline assembly of the keyed shaft design utilizing a 4 bolt driveshaft flange and matching drive yoke on the pump YESNO
X10.1.14.1	Does driveline have a minimum continuous torque rating equal to 200% of the imposed load when pump is operating at maximum system requirements YES NO
	Manufacturer and Model:
X10.1.14.2	Are dual journals and yokes incorporated to connect the pump shaft and engine drive flange with an angular misalignment no greater than six (6) degrees and not less than two (2) degrees YES NO
X10.2 Pump X10.2.1	Shutdown System: Normally closed, energize to open, solenoid operated control valve of the cartridge and manifold design to be directly bolted to pump pressure port YESNO
	Is solenoid electrical connection of the Packard "Weatherpack" type with "SO" cable wiring YES NO
X10.2.2	Is valve controlled by a console mounted "Master On" switch with pilot lamp for normal system operation and by a float switch located in hydraulic reservoir to automatically shut off pump pressure port flow to all down stream functions in the event of low hydraulic oil level
X10.2.3	Pressure drop across valve PSI at GPM flow when in the switched position
	Nominal valve rating GPM at PSI
X10.2.4	SAE #6 gauge port equipped with Parker Hannifin Model PD361 diagnostic coupling nipple and protective cap provided for pump output pressure testing to be installed in valve manifold and within an easily accessible mounting positionYES NO
X10.2.5	Is valve designed to protect the pump from damage when the system is shut down at high pressure and flow operation YES NO
X10.2.6	Valve manufacturer and model:
X10.2.7	Central control console mounted audio alarm and warning lamp indicating pump pressure/flow shutdown YES NO
X10.2.8	Warning lamp press-to-test light and incorporate a switching system into the automatic shutdown assembly to simulate low oil level, shut off pump output flow and test float switch wiring and connectionYESNO
X10.2.9	A console mounted electrical override function switch provided to allow momentary operation of hydraulic functions in emergency situationsYESNO

X10.3 Dire	ctional Control Valve Assembly:		
X10.3.1	Valve stacked section type and of closed center circuit design	YES	NO
X10.3.2	Each work section pressure and flow compensated with fully integra	ted load sense i	
	Flow output is relative to spool travel with preset maximum flow rat spool stroke providing feathering control of operated function	e obtained at m	aximum NO
X10.3.3	Dump body, snowplow lift, and snowplow power angle section of th	e manual cable YES	
	Auxiliary circuit section of the electric solenoid shift type	YES	NO
	Both ends of each section valve spool sealed with weather resistant of	caps or cable en	itry bonnets NO
X10.3.4	Valve assembly flow capacity rating and pressure drop characteristic the required pump output and circuit flow rates at the specified maxi pressure settings	es sufficient to promum load sens	e differential
X10.3.5	All valve ports of the SAE o-ring seal type and of sufficient size to have at stated load sense differential pressure	andle required YES	section flow NO
X10.3.6	Pressure compensation of the spinner and auger sections and also a pallow for operation of the plow hoist in any circumstance	oriority sectionYES	
X10.3.7	Main pressure inlet relief valve provided to reduce system pressure s	hock loads YES	NO
	Is it preset at pressure so as not to interfere with pump pressure compremature relief opening at system high demand operation		
X10.3.8	If pilot pressure reducing valve is required for solenoid section contrarequirements as set forth in Section 10.1.9.1	ol, design meet YES	
	Pilot supply and tank venting internal within the valve assembly sect	ionYES	NO
X10.3.9	Load sense network high pressure relief provided and preset to limit pressure	system maxim YES	
	Set point provides proper pressure margin to pump pressure compenvalve as to prevent premature loss of required flow rates and pressure	e capability	
3210 2 10	SAE #6 gauge port equipped with Parker Hannifin PD361 diagnostic	YES	
X10.3.10	protective cap for load sense testing to be installed in an easily acces	sible locationYES	NO

X10.3.11	Dump body control section 3-way three (3) position spring centered of a single acting hoist cylinder	cylinder spool YES	for operati øn NO
X10.3.11.1	Full flow workport relief valve installed in power up port	YES	NO
	Set point to prevent operating pressure from exceeding hoist pressure rating	cylinder norma	
X10.3.11.2	Flow limiting system preset at required flow rates provides provid		over demand
X10.3.12	Snowplow lift control section is 3-way three (3) position spring centrol detent for operation of a single acting lift cylinder with pilot control section of a single acting lift cylinder with pilot control section.	tered cylinder s ontrolled load lo YES	ck valve
	Does the valve design require a load holding check valve to properly	y carry the plow YES	
X10.3.12.1	Full flow workport relief valve preset at maximum required power down workport	unlock pressure YES	
	Workport relief valve installed in power up workport if max setting exceeds normal operating pressure limit of plow lift of		
		YES	
X10.3.12.2	Adjustable flow control installed to limit downward speed of snowplow	f YES	NO
	Flow limiting control system preset for proper plow lift spee over demand operation and to increase system efficiency	d to be supplied	l to reduce NO
X10.3.13	Snowplow power angle control section is 4 way three (3) position specifor operation of worm gear driven type reversing system	pring centered r	
X10.3.13.1	Flow limiting control system preset for proper plow reversin reduce over demand operation and to increase system efficie		
X10.3.14	Auxiliary equipment drive circuit control section 3-way three (3) posolenoid operated motor spool	sition spring ce	
	Is the circuit separate and distinct from the spreader control system	YES	NO
X10.3.14.1	Flow limiting control system preset to provide GPM	at a system load	pressure of
	PSI. Pump is capable of supplying this flow rate with engine spec	ed of RP	M NO

X10.3.14.2	Is an inline mounted control valve supplied for this operation	tion in place of dir	
	If supplied, is proper interconnections and venting of load	l sense network sy YES	
X10.3.14.3	Is pressure line 3/4" SAE 100R2 hose and manifold mour equipped with Parker Hannifin SH6-62 quick disconnect oplug		tive metal
	Is mating nipple SH6-63 with protective cap supplied	YES	NO
X10.3.14.4	Manufacturer and model of directional and auxiliary circu	iit valves:	
X10.3.15	Is directional control valve assembly with tank in an enclosure to	protect it from the	
	der Control Valve Assembly: Are spinner and conveyor solenoid flow controls of the PWM proequipped with manual overrides	oportional solenoic	
	Are overrides manually adjustable over operating flow range in the failure	ne event of electric	•
X10.4.2	Flow control circuits are pressure compensated	YES	NO
	Provides spinner flow rate of GPM and a conveyor f	low rate of	GPM
	Pressure relief valve system limit circuits to PSI		
X10.4.3	Load sense circuits connected to directional control valve network	k for proper pump YES	
·	Does design prevent improper high pressure load sense signal and spreader valve is not in use and when spreader quick disconnects	^	•
X10.4.4	Is PWM solenoid control supplied by microprocessor spreader co	ntrol system	NO
	Are solenoids capable of 100% PWM signal without failure	YES YES	NO NO
X10.4.5	Solenoid operated directional control valve and in-cab mounted el spreader conveyor reverse required for front or rear material disch		vided
X10.4.6	Is electrical switching and indicator light for spreader clogged ind		NO

X10.4.7	Manufacturer and model of valve:		73
X10.5 Sprea X10.5.1	der Control System: Dual flow, ground speed oriented spreader control system of the closed based type with nonvolatile control memory		
X10.5.2	Automatic calibration and flexibility of programming	_ YES	_NO
X10.5.3	System is capable of operation in ground speed oriented closed loop con loop, manual set, blast and unload modes and fully functional in both fr discharge selection		material
X10.5.4	Automatic switchover with display indication from closed loop to open levent of loss of feed rate sensor signal is provided		
X10.5.5	Control console digital readouts capable of displaying actual application speed, distance of spread route driven and total quantity of material spre		
X10.5.6	Programming and output cable connection for material and trip informat uploading is provided		
X10.5.7	Control unit capable of accumulating display information up to 999,999 of discharged material	miles and 99 _YES	
X10.5.8	Console programming capable of selection, calibration and display of fo materials with independent application rates of each material capable of or to rate increments of a preset maximum application rate	being set to	fixed rates
X10.5.9	A variable digital access code lockout for application rate selection and parameters is provided	for system o	
	Is it a key switch	YES	_NO
X10.5.10	Backlighted switches and LCD screen utilized for on-board programmin and application rate selection	g and for dis YES	
X10.5.11	Is material spread width selectable by no less than a 10 position switch v maximum spinner speed totally programmable through entire flow range		
	Is spinner speed capable of linking to ground speed for on-off control	YES	NO
X10.5.12	Does display enunciate error message and sound audio alarm when micr detects any loss of control or accuracy	oprocessor s _YES	
X10.5.13	Will system be fully functional at time of delivery	YES	_NO
X10.5.14	Is truck speed sensor compatible with type of speedometer drive system	supplied on YES	

X10.5.15	Is a built-in ground speed simulator provided either internal to the control console	e control or located		74
X10.5.16	Are all components required for proper installation and operation and spreader units supplied	of control systemYES		ж
X10.5.17	Manufacturer and model of proposed control system:			
X10.6 Centr X10.6.1	ral Control Console: Mounted between seats within easy access of the driver	YES	NO	
X10.6.1.1	Is warning light (bed raised) control console mounted	YES	NO	
X10.6.2	Will all wiring, valve control cables and electrical harness entry is sealed with grommets	nto cab and consol		
X10.6.3	Are remote control valve levers console mounted	YES	NO	
	Are all levers clearly marked as to function and operation	YES	NO	
X10.6.3.1	Remote control levers to operate push-pull type cables wit rod ends	th .250" diameter s		steel
X10.6.3.2	Is inner cable member 18-8 stainless steel armor wrapped resistance nylon liner and polyethylene covered tempered			
X10.6.3.3	Is cable to valve connection of the weather resistant bonne	eted typeYI	ES	NO
X10.6.3.4	Is hoist control lever OSHA compliant (hoist interlock)	YES	NO	
X10.6.4	Are central console or dash mounted rocker switches with indicate lights, spreader light and plow lights with all electrical output circuit individual printed circuit board mounted plug in module relays, is system control circuits	uits switched thro	ough draulic	e į
X10.6.4.1	Are interconnections and cables installed and ready for op	erationYE	S	NO
X10.6.4.2	Is hydraulic system automatic shutdown system and contro an independent circuit board module	ol switching relay YES		d on
X10.6.4.3	Both circuit board modules mounted within the cab	YES	NO	
X10.6.4.4	Is a front console mounted access plate to modules provide	ed YES	NO	
X10.7 Hydra X10.7.1	aulic Reservoir and Valve Enclosure Assembly: Hydraulic reservoir gallon operated capacity flex mounted valve enclosure assembly	to the chassis fram	ne rail an NO	ıd

X10.7.2	Tank constructed of gauge 304 stainless steel	YES	NO	75
X10.7.3	Tank equipped with a combination oil level sight glass and thermome	eterYE	s	NO
X10.7.4	Tank equipped with a pressurized ten (10) micron filter/breather cap strainer	with removablesNO	le 500 m	icror
X10.7.5	Is an internal steel baffle provided within the tank	YES	NO	
X10.7.6	Tank stenciled with minimum of 1 1/2" high "Hydraulic Oil"	YES	NO	
X10.7.7	Tank level switch connection "SO" type wiring and mounted in an artank	ppropriate loca YES		he
X10.7.8	Pump supply suction port inches NPT and system report port _	inches	NPT	
X10.8 Filt	ration:			
X10.8.1	Manufacturers standard filtration to adequately protect the hydraulic	system from d YES		
X10.8.2	Return line filter isolated from reservoir by a full flow non-restrictive valve if filter is not installed in the reservoir	type quarter t		s bal
X10.8.3	Each filter equipped with a differential pressure switch to indicate filt means of a console mounted indicator lamp	ter clogged co		y
X10.8.4	One (1) extra replacement filter for each assembly is provided for each	ch truck YES	NO	
X10.8.5	Filter assemblies positioned as close to reservoir as possible and in ar location	easily access YES		ice
3/10 0 II.a	as and Eittings			
X10.9 Hos X10.9.1	es and Fittings: Each hose assembly (hose with hose ends) except for suction hose is connections on ends where connection to system component is made)
X10.9.2	All pressure line hoses meet or exceed SAE Specification 100R2 and pressure hose, type C2AT for sizes up to and including 1 inch ID	-	_	h
X10.9.3	Suction hose 2 inch nominal ID and meet SAE Specification 100R4, reinforced, rubber covered hose with replaceable bolt-on type fittings	•	-	
X10.9.4	All hydraulic hoses fully cleaned on interior, installed, and ready for	operation YES	NO	
X10.9.5	Are grommets used when routing hoses through steel bracketing or fr	ame members YES		
X10.9.6	Snap tite quick disconnects (manifold mounted) supplied for the forw	rard and rear sp	pinner 1/	/2

X10.9.′	· · · · · · · · · · · · · · · · · · ·	ydraulic syste YES	
X10.9.8	* *	specific con YES	
X10.9.9		ler prior to a	· - · · · · · · · · · · · · · · · · · ·
X10.9.1	the front bumper with sufficient access for pump service and snowplo		llation
X10.9.1		ap-tite quick YES	
	Items not specifically stated but are necessary for proper system installation and comply with recommended hydraulic industry standards:	and operation	are supplied
X10.11 X10.11	Will initial servicing and pre-testing of hydraulic system be included for: Initial fill of reservoir with a high grade 32 AW hydraulic fluid to app	roximately 4	O gallon level,
		YES	
X10.11.		sive heat, sys	=
	Will you replace any defective component	YES	NO
	Will you cover any defects discovered at time of plow installation if e time of initial test of plow circuits	quipment is r	
X10.11.	Refill reservoir to the 40 gallon operating level	YES	NO
X10.12	If any hydraulic lines are located within 10 inches of exhaust system are they	metal lines a	
X10.13	Are detailed component specifications, product literature, system component materials and full functional hydraulic system schematics in accordance with	JIC and AN	SI-Y32 format
	attached with your hid	YES	NO

X10.14	If successful vendor, will you provide WVDOH with a complete list of all f maintenance on proposed unit	ilters required YES	-	
X10.15	Explain your training sessions with each purchase order (based on a purchase			
	operation, maintenance, trouble shooting and calibration/programming of the spreader controls and where will they be held:	•	_	

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AGREEMENT ADDENDUM

In the event of conflict between this addendum and the agreement, this addendum shall control:

- ARBITRATION Any references to arbitration contained in the agreement are hereby deleted. Disputes arising out of the agreement shall be presented to the West Virginia Court of Claims.
- 2. HOLD HARMLESS Any clause requiring the Agency to indemnify or hold harmless any party is hereby deleted in its entirety.
- GOVERNING LAW The agreement shall be governed by the laws of the State of West Virginia. This provision replaces any references to any other State's
 governing law.
- 4. TAXES Provisions in the agreement requiring the Agency to pay taxes are deleted. As a State entity, the Agency is exempt from Federal, State, and local taxes and will not pay taxes for any Vendor including individuals, nor will the Agency file any tax returns or reports on behalf of Vendor or any other party.
- PAYMENT Any references to prepayment are deleted. Payment will be in arrears.
- 6. <u>INTEREST</u> Should the agreement include a provision for interest on late payments, the Agency agrees to pay the maximum legal rate under West Virginia law. All other references to interest or late charges are deleted.
- 7. RECOUPMENT Any language in the agreement waiving the Agency's right to set-off, counterclaim, recoupment, or other defense is hereby deleted.
- 8. FISCAL YEAR FUNDING Service performed under the agreement may be continued in succeeding fiscal years for the term of the agreement, contingent upon funds being appropriated by the Legislature or otherwise being available for this service. In the event funds are not appropriated or otherwise available for this service, the agreement shall terminate without penalty on June 30. After that date, the agreement becomes of no effect and is null and void. However, the Agency agrees to use its best efforts to have the amounts contemplated under the agreement included in its budget. Non-appropriation or non-funding shall not be considered an event of default.
- STATUTE OF LIMITATION Any clauses limiting the time in which the Agency may bring suit against the Vendor, lessor, individual, or any other party are deleted.
- SIMILAR SERVICES Any provisions limiting the Agency's right to obtain similar services or equipment in the event of default or non-funding during the term of the agreement are hereby deleted.
- 11. ATTORNEY FEES The Agency recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction. Any other provision is invalid and considered null and void.
- 12. ASSIGNMENT Notwithstanding any clause to the contrary, the Agency reserves the right to assign the agreement to another State of West Virginia agency, board or commission upon thirty (30) days written notice to the Vendor and Vendor shall obtain the written consent of Agency prior to assigning the agreement.
- 13. LIMITATION OF LIABILITY The Agency, as a State entity, cannot agree to assume the potential liability of a Vendor. Accordingly, any provision limiting the Vendor's liability for direct damages or limiting the Vendor's liability under a warranty to a certain dollar amount or to the amount of the agreement is hereby deleted. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.
- 14. RIGHT TO TERMINATE Agency shall have the right to terminate the agreement upon thirty (30) days written notice to Vendor.
- 15. TERMINATION CHARGES Any provision requiring the Agency to pay a fixed amount or liquidated damages upon termination of the agreement is hereby deleted. The Agency may only agree to reimburse a Vendor for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the Agency prior to the end of any current agreement term.
- 16. RENEWAL Any reference to automatic renewal is hereby deleted. The agreement may be renewed only upon mutual written agreement of the parties.
- 17. INSURANCE Any provision requiring the Agency to insure equipment or property of any kind and name the Vendor as beneficiary or as an additional insured is hereby deleted.
- 18. RIGHT TO NOTICE Any provision for repossession of equipment without notice is hereby deleted. However, the Agency does recognize a right of repossession with notice.
- 19. ACCELERATION Any reference to acceleration of payments in the event of default or non-funding is hereby deleted.
- 20. AMENDMENTS All amendments, modifications, alterations or changes to the agreement shall be in writing and signed by both parties. No amendment, modification, alteration or change may be made to this addendum without the express written approval of the Purchasing Division and the Attorney General.

STATE OF WEST VIRGINIA	VENDOR
Spending Unit:	Company Name:
Signed:	Signed:
Title:	Title:
Date:	Date:

AFFIDAVIT

West Virginia Code §5A-3-10a states:

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name:	
Authorized Signature:	Date: